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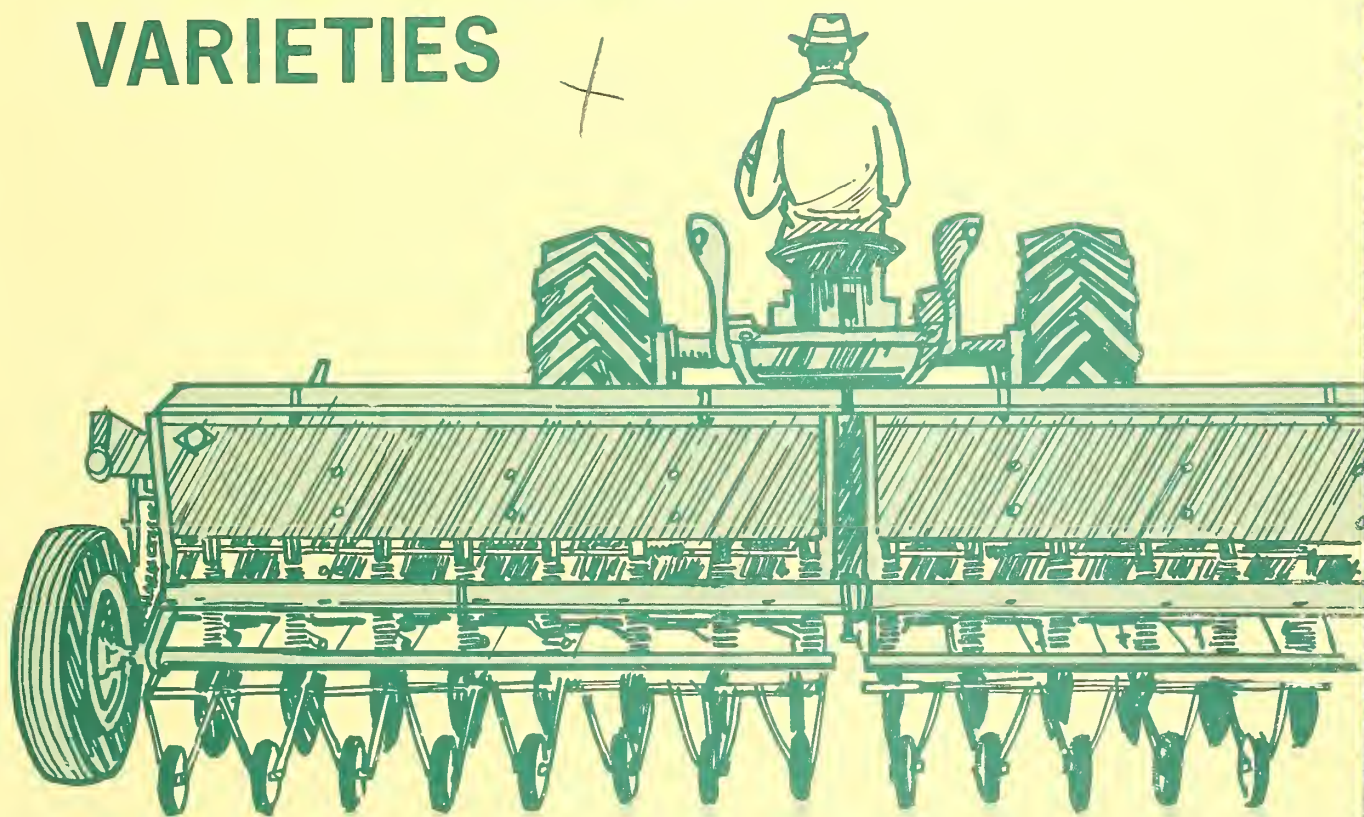
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GOVERNMENT SERIAL RECORDS

TRENDS IN FORAGE CROPS VARIETIES



FEDERAL EXTENSION SERVICE • UNITED STATES DEPARTMENT OF AGRICULTURE

PREFACE

Since World War II farmers have relied increasingly for their forage seed requirements on producers more specialized in seed production, situated in areas favored by soil and climate. Production of forage seed has therefore become both specialized and centralized. However, users of this seed remain scattered throughout the country, and their needs variety-wise are very different.

Because of this situation there is concern for a means of reflecting to the seed producer the consumer's needs.

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TRENDS IN FORAGE CROPS VARIETIES -- 1964

Purpose

The purpose of Trends in Forage Crops Varieties is to indicate changes in varieties one can expect among the crops used for forage production. The intent of this survey is to identify varieties that are on the way up in usage, those on the way out, and to give a measure of the rate of change. Species dealt with are those for which the majority of seed is grown in certain localities for use elsewhere.

A distinctive feature of this survey is the possibility it has of giving us clues to the future of a new variety soon after it appears. It capitalizes promptly on State variety tests. Predictions are arrived at by collecting, weighting, then consolidating the appraisals of each variety, as supplied by the States using it.

Variety trends information serves both the buyer of forage seed (the consumer) and the seed producer. For the consumer it tends to shorten the time gap between the release of a new variety and the stage at which seed becomes readily available. For the seed producer it indicates varieties that will be in demand, hence, to be expanded in production, and those varieties to be reduced. In this way it contributes to efficiency in both production and marketing.

The need for variety trends information has increased sharply in recent years. One cause is the centralization of seed production in certain localities for use elsewhere. Another is the step-up in the number of new forage varieties released. While both these developments offer advantages, they intensify the problem of acquainting the seed producer with the consumer's wants.

The "seed trade" is concerned with information in the survey. The trade performs a vital role in relating supply to demand. It makes a major contribution by encouraging production of varieties that are in demand and placing this seed where most desired. But this function also is made easier when the demand situation is clarified.

Survey Method

The survey covered 48 continental States. Hawaii, Puerto Rico and Alaska were omitted because of the difference in their forage species.

In each of these 48 States an extension agronomist working with forage crops was asked to assume responsibility for his State's report. All 48 responded.

It was suggested that the extension agronomist solicit help of everyone who could contribute to the validity of results in appraising the varieties. These would include college staff engaged in research and extension relating to forage crops and to seed, State Agricultural Department representatives, seedsmen, seed improvement association officers, crops reporting officials and others. In several States extension agronomists have gone so far as to conduct statewide variety surveys.

In its simplest terms, the question posed was this: In light of the performance of this variety in your State tests and on farms (if it has reached that stage) together with your judgment of your farmers' readiness to switch to such a variety - what do you expect of it? Will it go up or down in usage, or will it remain stationary? If you expect a change, will the change be slight, moderate, or sharp?

It was suggested that these State representatives assume the required seed would be available at competitive prices. This, experience has shown, is a critical consideration.

No time limit was prescribed. We were seeking only the direction of change and its rate.

A basic list of varieties was entered on the questionnaire. States were requested to list others.

Computing the Results

A value of 1.0 was assigned to varieties expected to remain stationary. Values ranging above one indicate estimated increases and those below one, decreases. Hence, the seven possibilities in the full range of estimates are expressed by the following numerical values:

Sharp increase	- 1.3
Moderate increase	- 1.2
Slight increase	- 1.1
Stationary	- 1.0
Slight decrease	- 0.9
Moderate decrease	- 0.8
Sharp decrease	- 0.7

In the process of determining trends, each State's estimate was weighted proportionately to its share of total acreage of the crop in the States growing this variety. Take Lincoln bromegrass for example. If one of the States reporting Lincoln grows ten times the total bromegrass acreage of another State reporting Lincoln, the larger producer influenced trend estimates ten times as much as the smaller.* This way of indicating trend is looked upon as a means of expressing consumer preference.

Understanding the Report

The actual difference between 1.3 and 0.7 is small. But, as employed in this report, these numbers describe expected changes in the use of varieties ranging from sharp uptrends to sharp downtrends. Hence, 1.1 conveys a very different meaning from say, 0.9. Condensed in these tiny figures is the collective judgment of authorities on future needs for these forage crop seeds.

Trend figures are the basic part of the report. Therefore, when sizing up the predicted future for a variety, the trend is the first item to consider. But also to be weighed are the number of States reporting the variety in question and the importance there of the crop. The present acreage is much less significant, especially in the case of new varieties.

As a generalization, the larger the number of States reporting the variety, the more accurate the prediction is likely to be. Exceptions are most likely to occur when we have a variety that was so recently released that it had not yet been widely tested. Another exception is a variety that is adapted to only a limited area. Such considerations are intensified by the fact that this survey is designed to bring judgments to light as early as possible following the release of a variety. Obviously, the more important the crop is to the reporting region, the greater the potential will be for good varieties.

Small acreage is not a reflection against a variety. Every new variety must have a beginning. And among those with small acreages at present we'll likely find our leading varieties of 5 to 10 years from now.

Vernal alfalfa provides a good example. When the first trends survey was made in 1957, Vernal accounted for only 3 per cent of the total alfalfa acreage. But State workers who made that report possible predicted that Vernal would expand in use. And they continued to do so. What has happened? Use of Vernal has increased to the point that it accounts for over 19 per cent of the reported acreage last year.

* Occasionally, the sum of the acreages by varieties will not equal the totals shown in the tables. This is due to the lack of a complete breakdown by varieties in these instances.

Incidentally, studies on the soundness of the survey also show that the decline in Ranger alfalfa harmonizes quite well with the predictions.

Other Uses of the Report

In addition to trend predictions the survey has other uses. For example,

1. It tells us where a particular forage crop is grown and specifies the varieties used by regions and by States.
2. It enables workers in one State to compare their judgment of a variety with the judgment of workers in other States.
3. It identifies the areas where interest is greatest in a given variety.
4. When considered jointly with differences in seed prices among varieties it can reveal unsatisfied markets.

ACKNOWLEDGMENTS:

Many people had part in the production of this report. First, there was the extension agronomist in each State who shouldered the responsibility of crystallizing an expression of judgment of the varieties under test or in use on farms in his State. There were the coworkers of these men who together appraised the numerous varieties studied. They came from research, extension, crops reporting, seed trade, crop improvement, regulatory work and other fields concerned with crop improvement. As mentioned earlier, their response to the questionnaire was 100 percent.

ALFALFA Table 1

ACREAGES BY VARIETIES - 8Y STATES AND REGIONS

NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	N.H.A. 1000 ACRES	TOTAL 1000 ACRES
ALFA													
ATLANTIC													
BLENDS													
BUFFALO	10.0	2.0		0.1	0.1	0.2	55.0	15.0	10.5		2.0		27.8
CAYUGA				8.0	8.0		1.0	1.0	3.0				83.1
CHEROKEE							5.0	75.0	21.0	0.1	3.0		41.1
CODY				0.1	0.1								100.0
COMMON	15.0			15.0			1.0	15.0	1.0				105.9
CULVER													0.1
DUPUITS	4.0	3.0	3.0	6	10.0	1.5	1.0	140.0	70.0	0.4	8.0		1.0
GRIMM													45.0
NARRAGANSETT	5.0	0.3	12.0	3.7	3.0	6.0	1.2	625.0	56.0	4.0			257.9
RANGER						0.1	0.2	100.0	105.0	0.1	42.0		3.0
SABANAC								1.9			8.0		778.2
VERNAL	8.0	1.2	2.2	12.0	12.0	3.5	24.0	175.0	300.0	0.4	22.0		213.4
WILLIAMSBURG		4.0		45.0			0.1	9.0	18.5				1.9
ALL OTHERS													610.3
TOTAL	42.0	10.5	18.0	90.0	25.1	12.3	87.5	1,171.9	700.0	5.0	85.0		27.6
													2,367.3

NORTH-CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.DAK. 1000 ACRES	OHIO 1000 ACRES	S.DAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
ALFA													
ATLANTIC	15.0	1.0	50.0										74.0
BLENDS													6.0
BUFFALO	80.0	3.0	500.0			219.0	1.0	50.0	500.0	8.0	50.0	120.0	1,717.0
CALIFORNIA	40.0	12.3	40.0	1,370.5	100.0		210.0	120.0		75.0			1,842.8
CARDINAL	1.0									50.0			1.0
CAYUGA													1.0
CODY	10.0	0.5		185.0			70.0	10.0		2.0			2.0
CUMMINS	550.0	90.0	160.0	470.0			175.0	575.0	250.0	25.0	1,189.2	30.0	275.5
COSSACK	3.0		10.0					5.0		15.0	250.0	5.0	3,514.2
CULVER													273.0
DUPUITS	85.0	3.1	300.0		55.0	69.0	25.0	15.0	15.0	100.0		300.0	55.0
FC 100	15.0	1.5	35.0					8.0		5.0			967.1
GLACIER													62.5
GRIMM	30.0	19.6	25.0		90.0	150.0		5.0	200.0	30.0	30.0	15.0	5.0
LADAK			5.0	25.0	1.0			10.0	250.0	250.0	250.0	1.0	564.6
LAPCINTAN	3.0			0.2							0.4		542.0
M-FALCATA													0.2
POAPA	5.0									5.0	0.2	5.0	5.0
NARRAGANSETT		0.5			0.2								10.9
OKLA APPROVED	10.0	0.5	145.0							20.0	0.2	5.0	10.5
OTHER PRIVATE VARIETIES										175.0			165.0
RAPBLER					397.0	750.0	65.0	775.0	1.0	400.0	0.4	800.0	176.4
RANGER	650.0	568.0	400.0	0.5					450.0	9.0			5,255.5
4-1200A													9.0
SONORA													0.0
TETON													0.0
TRAVOIS													7.0
VERNAL	140.0	77.0	350.0	0.5	700.0	850.0	180.0	95.0	450.0	500.0	60.0	2,664.0	0.1
WILLIAMSBURG				0.5									6,066.5
ALL OTHERS	30.0	4.0			57.0	275.0	54.0	163.0		5.0		10.5	0.5
TOTAL	1,668.0	821.0	2,020.0	2,052.2	1,400.2	2,317.0	800.0	1,831.0	2,117.0	1,000.0	2,245.3	3,950.5	22,222.2

ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - 8Y STATES AND REGIONS SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
AFRICAN														
ATLANTIC	0.2			0.5	3.0	80.0		22.0	4.0	1.7	5.0	5.5	15.0	6.0
BLEND					2.0	100.0		1.0	40.0	2.0	80.0	9.0	15.0	131.4
BUFFALO	4.0	26.0										1.0		2.0
CALIFORNIA						1.0								282.5
CAROLINA						0.5								1.0
CAYUGA						0.7								0.5
CHEROKEE		0.2						4.0		0.1				0.0
CHILLIAN 21-5			0.1											0.1
COMMON		1.5							80.0		1.0	2.0		81.5
CULVER	2.0	1.8			3.0	50.0	0.5		19.0	3.0	20.0	260.0	55.0	432.3
DUPUIS						45.0								0.5
FO 100						20.0		2.0		0.4	10.0	5.0		62.4
GLACIER						0.5					0.5			20.5
GRIMM						0.5								0.5
HAIYU PERUVIAN			2.0											0.5
INDIAN			0.1									20.0		22.6
LA-CENTAN		4.0							5.0			8.0		8.1
MOAPA												12.0		21.0
NARRAGANSETT	0.1				1.0	90.0		0.1		0.1	5.0	5.5		5.5
OKLA APPROVED	9.1	5.0				20.0							25.0	121.4
RANGER	1.4					0.3			240.0		20.0	5.0		289.0
RITZOWA														21.4
SONORA												1.0		0.3
VERNAL	0.1	2.1				25.0		0.2					2.0	1.0
WILLIAMSBURG	0.5					7.0		2.0			10.0	6.0	78.0	98.1
ZITA					0.5			5.7			2.0			6.0
ALL OTHERS							0.6							8.2
TOTAL	16.0	42.0	2.7	9.5	441.0	16.0	3.7	37.0	384.0	7.3	153.5	350.0	200.0	1,662.7

ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS														
WESTERN														
VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
AFRICAN	34.7	10.0		0.7		0.8		1.0		10.0				45.5
ALFA														11.7
API-IDCR														0.0
ATLANTIC		0.3	1.0	0.1										6.4
BLENOS	188.0	100.0	15.0	237.7	60.0		24.0	2.0	22.0		5.0			773.7
BUFFALO	0.6	5.0	35.0	0.2			7.0		2.0		10.0			59.8
CALIFEROE		30.0												30.0
CANDINAL				0.1	0.1			0.5						0.7
CAYUGA				1.7										1.7
CHEROKEE		0.5												0.5
CHILLIAN 21-5	14.8													14.8
COMMON		6.0	5.0	0.1		0.3								11.4
COSSACK	10.5	90.0	236.5	713.1	300.0	7.0	38.0	20.0	83.0	25.0	85.0			1,608.1
CULVER		0.5		0.2	20.0	2.0			24.5		2.5			26.5
CUPUTIS		3.0		1.1		1.0		25.0	0.8	40.0	0.1			96.0
FO 100		2.0			25.0	1.0		2.0						27.0
GLACIER														0.7
CHIMM		3.0		1.6	290.0	1.0		30.0	12.0		60.0			397.6
FAIRY PERUVIAN	4.0	2.0												6.0
LACAK		30.0	153.0	1.3	95.0	1.0		65.0	27.0	180.0	55.0			604.3
LAHONTAN		350.0	10.0	0.7		90.0	12.0	14.5	27.0					509.6
M FALCATA	5.4													5.4
MEEKBR BALTIC			15.0			6.0					0.5			21.5
MOAPA	87.5	350.0						3.0						446.5
NARACANSETT			1.0			1.0			0.2		0.1			5.7
NOMAC			1.5	3.4	1.2	2.0		20.0			0.1			24.8
ORESTAN								30.0						30.0
OTHER PRIVATE VARIETIES		35.0												35.0
RAMBLER		3.0			0.5	0.2		1.0			0.1			4.8
RANGER	6.3	65.0	300.0	14.2	55.0	40.0	10.0	65.0	320.0	70.0	135.0			1,080.5
RESISTADOR		10.0				0.3		1.0						11.3
RHIZOMA	0.1			0.1		0.4		2.0			0.1			2.7
SARANAC				0.1										0.1
SONGRA	2.0	80.0				1.0								83.0
TALBOT				0.1		0.1		18.0						18.2
TETON					0.2									0.2
TRAVIS				0.1							0.5			0.6
TUNA														0.1
UNITA									0.3					0.4
VERNAL		40.0	75.0	20.9	120.0	5.0		100.0	6.0	320.0	2.0			688.9
WILLIAMSBURG		2.0				1.0								3.1
ZIA	0.1	2.0					46.0							48.1
ALL OTHERS		5.0		0.1		3.0	5.0							13.1
TOTAL	354.0	1,224.3	845.0	997.7	967.0	164.2	142.0	400.0	500.3	645.0	481.0			6,720.5

ALFALFA Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964				1959-63 AVERAGE	1964		
	1000 ACRES					1000 ACRES			
ALFA	19.9	27.8	1.17	0.8	ALFA	31.2	74.0	0.33	1.1
ATLANTIC	112.7	83.1	3.51	0.9	ATLANTIC	24.1	6.0	0.03	0.7
BLENC	36.5	41.1	1.74	0.9	BLENC	1,365.5	1,717.0	7.73	1.0
BUFFALO	248.7	100.0	4.22	0.8	BUFFALO	1,998.2	1,842.8	8.29	1.0
CAYUGA	31.9	105.9	4.47	1.3	CALVEROE	0.8	1.0	0.00	1.0
CHEROKEE	-	0.1	0.00	1.0	CARDINAL	-	1.0	0.00	1.3
COCY	-	1.0	0.04	1.1	CAYUGA	-	2.0	0.01	1.1
COMMON	49.4	45.0	1.90	0.9	COCY	82.9	275.5	1.24	1.3
CULVER	0.6	1.0	0.04	1.1	COMMON	3,840.6	3,514.2	15.81	0.8
OUPIITS	252.3	257.9	10.89	0.9	COSSACK	298.9	273.0	1.23	1.0
GRIMM	18.0	3.0	0.13	0.8	CULVER	34.0	55.0	0.25	1.2
NARRAGANSETT	406.5	778.2	32.87	1.1	OUPIITS	578.7	967.1	4.35	1.2
RANGER	522.2	213.4	9.01	0.8	FO 100	17.3	69.5	0.31	1.1
SARANAC	-	1.9	0.08	1.0	GLACIER	-	5.0	0.02	1.1
VERNAL	373.9	610.3	25.78	1.0	GRIMM	1,002.6	564.6	2.54	0.9
WILLIAMSBURG	57.8	70.0	2.96	1.1	LACAK	544.8	542.0	2.44	1.0
ALL OTHERS	165.3	27.6	1.17	0.9	LAMONTAN	0.6	3.2	0.01	1.0
					M FALCATA	-	0.4	0.00	1.0
					MOAPA	8.0	5.0	0.02	1.0
					NARRAGANSETT	5.5	10.9	0.05	1.0
					OKLA APPROVED	9.0	10.5	0.05	1.0
					OTHER PRIVATE VARIETIES	-	165.0	0.74	0.8
					RAMBLER	0.2	176.4	0.79	0.7
					RANGER	6,813.9	5,255.5	23.65	0.9
					RHIZOMA	8.6	9.0	0.04	1.0
					SONORA	-	0.0	0.00	0.0
					TETON	3.3	7.0	0.03	1.1
					TRAVOIS	-	0.1	0.00	1.2
					VERNAL	3,980.8	6,066.5	27.30	1.1
					WILLIAMSBURG	42.0	0.5	0.00	1.0
					ALL OTHERS	464.8	602.5	2.71	1.0
TOTAL	2,367.3				TOTAL	22,222.2			
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964				1959-63 AVERAGE	1964		
	1000 ACRES					1000 ACRES			
AFRICAN	6.2	6.0	0.36	0.9	AFRICAN	154.3	45.5	0.68	0.9
ATLANTIC	165.2	131.4	7.90	0.9	ALFA	3.5	11.7	0.17	1.1
BLENC	-	2.0	0.12	0.7	APHICOR	2.0	0.0	0.00	0.0
BUFFALO	266.6	282.5	16.99	1.1	ATLANTIC	13.8	6.4	0.10	1.0
CALVEROE	1.0	1.0	0.06	1.0	BLENC	403.5	773.7	11.51	1.0
CARDINAL	-	1.0	0.06	1.2	BUFFALO	108.2	59.8	0.89	0.9
CAYUGA	-	0.5	0.03	1.2	CALVEROE	40.0	30.0	0.45	1.0
CHEROKEE	0.1	5.0	0.30	1.2	CARDINAL	-	0.7	0.01	1.1
CHILLIAN 21-5	1.3	0.1	0.01	1.1	CAYUGA	1.5	1.7	0.03	1.1
COCY	17.9	84.5	5.08	1.2	CHEROKEE	-	0.5	0.01	1.0
COMMON	567.5	432.3	26.00	1.0	CHILLIAN 21-5	18.9	14.8	0.22	0.9
CULVER	-	0.5	0.03	1.2	COCY	11.6	11.4	0.17	1.1
OUPIITS	43.0	62.4	3.75	1.1	COMMON	1,065.9	1,608.1	23.93	1.0
FO 100	10.7	20.5	1.23	1.2	COSSACK	32.1	24.5	0.36	0.8
GLACIER	-	0.5	0.03	1.2	CULVER	1.2	0.7	0.01	1.0
GRIMM	-	0.5	0.03	0.8	OUPIITS	109.2	96.0	1.43	1.0
HAIRY PERUVIAN	24.6	22.6	1.36	1.0	FO 100	1.7	5.0	0.07	1.1
INDIAN	6.7	8.1	0.49	1.0	GLACIER	-	0.0	0.00	0.0
LAMONTAN	17.3	21.0	1.26	1.1	GRIMM	363.1	397.6	5.92	0.8
MOAPA	4.0	5.5	0.33	0.9	HAIRY PERUVIAN	16.1	6.0	0.09	0.9
NARRAGANSETT	59.7	121.4	7.30	1.1	LACAK	603.2	604.3	8.99	1.0
OKLA APPROVED	306.3	289.0	17.38	0.9	LAMONTAN	513.4	509.6	7.58	0.9
RANGER	30.5	21.4	1.29	0.7	M FALCATA	0.1	0.0	0.00	0.0
RHIZOMA	3.2	0.3	0.02	0.7	MEEKER BALTIC	24.5	21.5	0.32	1.1
SONORA	-	1.0	0.06	1.0	MOAPA	452.2	440.5	6.55	0.8
VERNAL	18.4	29.4	1.77	1.2	NARRAGANSETT	8.7	5.7	0.08	1.1
WILLIAMSBURG	108.9	98.1	5.90	0.9	NOMAC	21.7	24.8	0.37	0.9
ZIA	3.4	6.0	0.36	1.0	ORESTAN	37.5	30.0	0.45	1.0
ALL OTHERS	22.6	8.2	0.49	1.0	OTHER PRIVATE VARIETIES	-	35.0	0.52	1.0
					RAMBLER	30.0	4.8	0.07	1.1
					RANGER	937.3	1,080.5	16.08	1.0
					RESISTADOR	2.0	11.3	0.17	1.3
					RHIZOMA	3.1	2.7	0.04	1.0
					SARANAC	-	0.1	0.00	1.1
					SONORA	2.5	83.0	1.24	1.3
					TALBNT	13.3	18.2	0.27	1.0
					TETON	0.5	0.7	0.01	1.0
					TRAVOIS	-	0.1	0.00	1.1
					TUNA	-	0.0	0.00	0.0
					UINTA	0.8	6.4	0.01	1.1
					VERNAL	377.6	688.9	10.25	1.2
					WILLIAMSBURG	2.2	3.1	0.05	1.0
					ZIA	25.5	48.1	0.72	1.2
					ALL OTHERS	33.5	13.1	0.19	1.0
TOTAL	1,662.7				TOTAL	6,720.5			

ALFALFA Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE		EXPECTED REPORTING RECOMMENDING	
	AVERAGE		PERCENT	TREND	NO.	NO.
VERNAL	4,750.7	7,395.1	22.43	1.1	38	37
RANGER	8,303.9	6,570.8	19.93	0.9	30	25
COMMON	5,523.4	5,599.6	16.98	0.9	35	8
BLENDS	1,805.5	2,533.8	7.68	1.0	25	1
BUFFALO	2,621.7	2,285.1	6.93	1.0	30	23
DUPUITS	983.2	1,383.4	4.20	1.1	34	27
LADAK	1,148.0	1,146.3	3.48	1.0	16	13
GRIMM	1,383.7	965.7	2.93	0.9	18	5
NARRAGANSETT	480.4	916.2	2.78	1.1	31	26
ALL OTHERS	686.2	651.4	1.98	1.0	18	13
LAFONTAN	531.3	533.8	1.62	0.9	13	10
MOAPA	464.2	451.0	1.37	0.8	6	5
COCY	112.4	372.4	1.13	1.3	15	12
CKLA APPROVED	315.3	299.5	0.91	0.9	8	3
COSSACK	331.0	297.5	0.90	1.0	8	2
ATLANTIC	315.8	226.9	0.69	0.9	21	16
OTHER PRIVATE VARIETIES	0.0	200.0	0.61	0.8	3	-
RAMBLER	30.2	181.2	0.55	0.7	10	7
WILLIAMSBURG	210.9	171.7	0.52	1.0	14	12
ALFA	54.6	113.5	0.34	1.0	13	11
CAYUGA	33.4	110.1	0.33	1.3	13	11
FD 100	29.7	95.0	0.29	1.1	11	5
SONORA	2.5	84.0	0.25	1.3	6	6
CULVER	35.8	57.2	0.17	1.2	6	4
ZIA	28.9	54.1	0.16	1.2	4	4
AFRICAN	160.5	51.5	0.16	0.9	6	3
CALIVERDE	41.8	32.0	0.10	1.0	3	1
ORESTAN	37.5	30.0	0.09	1.0	2	2
HAIKY PERUVIAN	40.7	28.6	0.09	1.0	5	3
NOHAD	21.7	24.8	0.08	0.9	6	3
MEEKBR BALTIC	24.5	21.5	0.07	1.1	4	2
TALENT	13.3	18.2	0.06	1.0	3	2
CHILLIAN 21-5	20.2	14.9	0.05	0.9	2	1
RHIZOMA	14.9	12.0	0.04	1.0	8	6
RESISTADOR	2.0	11.3	0.03	1.3	4	1
INDIAN	6.7	8.1	0.02	1.0	2	2
TEYON	3.8	7.7	0.02	1.1	5	2
CHEROKEE	0.1	5.6	0.02	1.2	7	4
GLACIER	0.0	5.5	0.02	1.1	3	1
CARDINAL	0.0	2.7	0.01	1.3	5	1
SARANAC	0.0	2.0	0.01	1.1	4	4
UINTA	0.8	0.4	*	1.2	4	3
M FALCATA	0.1	0.4	*	1.4	2	1
TRAVOIS	0.0	0.2	*	1.7	2	2
TUNA	-	0.0	*	0.0	1	1
APHICCR	2.0	0.0	*	0.0	1	1

RED CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	W.VA. 1000 ACRES	TOTAL 1000 ACRES
CHESAPEAKE													
COMMON	4.0	7.0	25.0	50.0		2.0	2.0	425.0	375.0	5.0			64.0
DOLLARD	2.0	5.0	1.5	135.0		0.5	2.0	10.0			16.0		989.0
KENLAND		1.0		28.0	0.1		1.0		3.0				14.1
LAKELAND			1.0		0.5	0.5							33.0
MAMMOTH			5.0					20.0	10.0		0.5		2.5
PENNSCOTT	1.0	10.0	10.0	7.0	10.0	15.0	24.0	120.0	407.0		4.0		35.0
ALL OTHERS							1.0						612.0
TOTAL	7.0	23.0	42.5	220.0	10.6	18.0	30.0	575.0	800.0	4.5	20.0		1,750.6

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON	860.0	570.0	840.0	20.0	365.0	300.0	250.0	150.0	0.6	1,200.0	0.9	700.0	5,256.5
DOLLARD	0.5		25.0		15.0	40.0			0.7	20.0	0.2	125.0	226.4
KENLAND	10.0	83.0	100.0	2.0	5.0		375.0	22.5	0.1	200.0			797.6
LAKELAND	1.0	5.0	5.0		1.0	10.0			0.5	100.0	0.1	74.0	196.6
MAMMOTH	128.0	130.5			30.0			12.0					288.5
PENNSCOTT			30.0		20.0				0.1	60.0			12.0
ALL OTHERS	0.5	13.5								20.0		1.0	110.1
TOTAL	1,000.0	802.0	1,000.0	22.0	436.0	350.0	625.0	184.5	2.0	1,600.0	1.2	900.0	6,922.7

RED CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
CHESAPEAKE			0.1		2.5			2.0					90.0	94.6
COMPON					150.0		5.0	8.0			50.0		209.0	422.8
KENLAND	0.4	18.0	0.6	4.0	300.0		1.7	25.0	0.1		160.0	0.5	230.0	752.3
LAKELAND														0.0
NOLINS			0.1				0.6							0.7
ORBIT		0.2						2.0						2.2
PENNSCOTT			0.1								2.0		4.0	6.1
PORT GIBSON							0.5	25.0						25.5
TENSAS			0.4				1.1		0.1			0.7		2.3
ALL OTHERS								3.0						3.0
TOTAL	0.4	18.2	1.3	4.0	452.5	4.7	57.0	25.0	0.2		212.0	1.2	533.0	1,309.5

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COL. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
ALASKANO														0.0
CHESAPEAKE		0.5					0.5							1.1
COMPON		80.0	10.0	0.1	155.0		5.0	30.0	80.0	70.0				430.0
DOLLARO			0.7	0.1	0.1		0.5	1.0	20.0					22.9
KENLAND		60.0	1.0	5.7	65.0		0.8	80.0		150.0	0.5			363.0
LAKELAND		10.0		0.5	0.2		0.5	2.0		50.0	0.1			63.3
PENNSCOTT			1.0											1.0
PORT GIBSON			3.0	7.4			0.3	15.0		65.0	0.5			91.2
ALL OTHERS			4.2				0.4							4.6
TOTAL	150.5	19.9	13.8	220.3	8.0		128.0	100.0	335.0	1.6				977.1

RED CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			

CHESAPEAKE	39.1	64.0	3.66	1.1
COMMON	1,055.8	989.0	56.49	0.9
DOLLARD	11.8	14.1	0.81	0.9
KENLAND	123.5	33.0	1.89	1.0
LAKELAND	0.3	2.5	0.14	1.1
MAMMOTH	70.0	35.0	2.00	0.9
PENNSCOTT	642.9	612.0	34.96	1.0
ALL OTHERS	255.2	1.0	0.06	1.0

TOTAL

1,750.6

NORTH CENTRAL

	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			

	5,462.6	5,256.5	75.93	1.0
	282.5	226.4	3.27	0.9
	866.4	797.6	11.52	0.9
	123.6	196.6	2.84	1.2
	487.0	288.5	4.17	1.0
	-	12.0	0.17	1.1
	128.9	110.1	1.59	0.9
	50.5	35.0	0.51	0.8

6,922.7

TOTAL

SOUTHERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			

CHESAPEAKE	41.0	94.6	7.22	1.2
COMMON	349.9	422.8	32.29	1.0
KENLAND	730.2	752.3	57.45	1.1
LAKELAND	0.0	0.0	0.00	0.0
NOLINS	2.7	0.7	0.05	1.0
DRBIT	0.4	2.2	0.17	1.2
PENNSCOTT	4.1	6.1	0.47	1.0
PORT GIBSON	9.5	25.5	1.95	1.2
TENSAS	4.4	2.3	0.18	1.1
ALL OTHERS	-	3.0	0.23	1.0

TOTAL

1,309.5

WESTERN

	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			

	0.2	0.0	0.00	0.0
	0.3	1.1	0.11	1.0
	363.6	430.0	44.01	0.9
	5.1	22.9	2.34	1.0
	368.8	363.0	37.15	1.0
	18.0	63.3	6.48	1.1
	-	1.0	0.10	1.0
	77.9	91.2	9.33	1.1
	13.2	4.6	0.47	1.0

977.1

TOTAL

RED CLOVER Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. A C R E A G E		TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	1959-63	1964			NO.	NO.
	AVERAGE					
COMMON	7,231.9	7,098.3	64.77	1.0	34	15
KENLAND	2,088.9	1,945.9	17.75	1.0	35	31
PENNSCOTT	853.8	819.4	7.48	1.0	26	23
MAMMOTH	557.0	324.5	2.96	1.0	7	2
DOLLARD	299.4	263.4	2.40	0.9	21	17
LAKELAND	141.9	262.4	2.39	1.2	24	23
CHESAPEAKE	77.4	159.7	1.46	1.2	12	11
ALL OTHERS	318.9	43.6	0.40	0.9	8	7
PORT GIBSON	9.5	25.5	0.23	1.2	2	2
MIDLAND	-	12.0	0.11	1.1	1	1
TENSAS	4.4	2.3	0.02	1.1	4	4
ORBIT	0.4	2.2	0.02	1.2	3	2
NOLINS	2.7	0.7	0.01	1.0	2	2
ALASKLAND	0.2	0.0	#	0.0	1	1
TOTAL		10,959.9				

WHITE CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	N.VA. 1000 ACRES	TOTAL 1000 ACRES
CERT ORE-CAL													
COMMON	1.0			12.0	2.0						80.0		80.0
LACINO	4.0	35.0	20.0	100.0	30.0	20.0	40.0	75.0	100.0	4.0			15.0
PILGRIM						2.0	10.0						428.0
ALL OTHERS										2.5			12.0
TOTAL	5.0	35.0	20.0	112.0	32.0	22.0	50.0	75.0	100.0	6.5	80.0		537.5

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.DAK. 1000 ACRES	OHIO 1000 ACRES	S.DAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON													
LACINO	650.0	103.0	50.0		175.0		500.0	9.6		100.0		600.0	109.6
MERIT								4.7		400.0			2,482.7
PILGRIM						200.0							0.0
ALL OTHERS													0.0
TOTAL	650.0	103.0	50.0		175.0	200.0	500.0	14.3		500.0		600.0	2,792.3

WHITE CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	L.A. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
ALALU	25.0	1,000.0			250.0	272.0	1,000.0	200.0	10.0		8.0			33.0
COMMON														
LA S-1	50.0	50.0	30.0	30.0		207.8	500.0		10.0		50.0	50.0	3,000.0	5,832.0
LA WHITE	300.0	80.0	3.0	360.0	30.0		50.0		3.0		10.0	75.0		865.8
LACINO	90.0	360.0	5.0	40.0	540.0	9.2		800.0	5.0	53.8	600.0	115.0		1,596.8
NOLINS			20.0			21.5				107.6	120.0		500.0	2,576.8
PILGRIM									1.0					41.5
REGAL	4.0													1.0
ALL OTHERS	431.0					20.0								4.0
TOTAL	900.0	1,490.0	58.0	430.0	820.0	530.5	1,550.0	1,000.0	19.0	161.4	788.0	240.0	3,500.0	11,486.9

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
COMMON	0.1		10.0	22.0		12.0	37.0	37.0	140.0					221.1
LACING	0.2	716.0	8.0			6.0	50.0	50.0	40.0	50.0	0.5			870.7
MERIT		0.6												0.6
NEW ZEALAND							41.0	41.0		120.0				164.0
PILGRIM		4.0	5.0			10.0	4.0	4.0		5.0				9.0
ALL OTHERS														19.0
TOTAL	0.3	720.6	23.0	22.0		28.0	132.0	132.0	180.0	175.0	0.5			1,281.4

WHITE CLOVER Table 2

16

ACRBAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN

VARIETY	ACREAGE			PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63				
	AVERAGE	1964	1000 ACRES		
CERT ORE-CAL	-	80.0	14.88	0.9	
COMMON	47.8	15.0	2.79	1.0	
LADINO	511.3	428.0	79.63	0.9	
PILGRIM	4.9	12.0	2.23	1.0	
ALL OTHERS	-	2.5	0.47	0.9	
TOTAL		537.5			

NORTH CENTRAL

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			
COMMON	243.0	109.6	3.93	0.7
LADINO	3,578.5	2,482.7	88.91	0.9
MERIT	-	0.0	0.00	0.0
PILGRIM	-	0.0	0.00	0.0
ALL OTHERS	-	200.0	7.16	1.0
TOTAL		2,792.3		

SOUTHERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63			
	AVERAGE	1964		
	1000 ACRES			
ALALU	43.2	33.0	0.29	0.8
COMMON	2,430.2	5,832.0	50.77	1.0
LA S-1	349.9	955.8	8.32	1.2
LA WHITE	1,600.0	1,591.8	13.86	0.9
LADINO	2,542.3	2,576.8	22.43	1.1
NOLINS	59.4	41.5	0.36	1.0
PILGRIM	5.0	1.0	0.01	1.0
REGAL	-	4.0	0.03	1.2
ALL OTHERS	464.7	451.0	3.93	1.0
TOTAL	11,486.9			

WESTERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			
COMMON	237.5	221.1	17.25	1.0
LADINO	778.6	870.7	67.95	1.0
MERIT	-	0.6	0.05	1.1
NEW ZEALAND	92.5	161.0	12.56	1.1
PILGRIM	21.0	9.0	0.70	0.9
ALL OTHERS	53.3	19.0	1.48	1.0
TOTAL		1,281.4		

WHITE CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL		EXPECTED REPORTING RECOMMENDING	
	AVERAGE		ACREAGE	TREND	NO.	NO.
LADINO	7,410.9	6,358.2	39.50	1.0	37	34
COMMON	2,998.5	6,177.7	38.38	1.0	21	14
LA WHITE	1,600.0	1,591.8	9.89	0.9	9	5
ALL OTHERS	518.0	955.8	5.94	1.2	9	8
LA S-1	349.9	672.5	4.18	1.0	7	5
NEW ZEALAND	92.5	161.0	1.00	1.1	2	2
CERT. ORE-CAL	-	80.0	0.50	0.9	1	1
NOLINS	59.4	41.5	0.26	1.0	2	2
ALALU	43.2	33.0	0.20	0.8	2	-
PILGRIM	30.9	22.0	0.14	1.0	7	6
REGAL	-	4.0	0.02	1.2	2	2
MERIT	0.0	0.6	*	1.2	2	1
TOTAL		16,098.1				

SWEET CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	HE. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	S.I. 1000 ACRES	VT. 1000 ACRES	N.H.A. 1000 ACRES	TOTAL 1000 ACRES
COMMON 1				2.0	0.2	0.1	0.2						2.5
TOTAL				2.0	0.2	0.1	0.2						2.5

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.DAK. 1000 ACRES	OHIO 1000 ACRES	S.DAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON 1	500.0	270.0	180.0	75.0	80.0		10.0	366.0	170.0	190.0	205.0	9.5	2,055.5
DENTIA	0.1	1.0						3.0	10.0	10.0	0.1		10.6
EVERGREEN										20.0			34.1
GULCTCP									1.5		0.4		1.9
HUBAM	1.2		20.0					4.8		5.0	0.2		31.2
MADRID	35.0	1.0	80.0	550.0			80.0	91.0	160.0		2.0	0.5	999.5
SPANISH													0.0
ALL OTHERS								5.0		25.0			30.0
TOTAL	536.3	272.0	280.0	625.0	80.0		90.0	469.8	342.0	250.0	207.7	10.0	3,162.8

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
COMMON 1		1.0			55.0	1.0		0.5	40.0					98.3
EVERGREEN					17.0				4.0					21.0
FLORANA			5.0			0.8						25.0		30.8
HUBAM		2.0	10.0	0.5		12.5		1.5	2.0			160.0		188.5
ISRAEL		5.0										5.0		5.0
MADRID						0.1		1.0	18.0			15.0		38.0
ALL OTHERS														1.1
TOTAL		8.0	15.0	0.5	72.0	15.2		3.0	64.0			205.0		382.7

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
COMMON 1	0.5	5.0	75.0		70.0	6.0			14.0		150.0			320.5
GULCTCP			0.5								0.5			0.5
HUBAM	0.2		10.0		5.0	0.5			2.5					18.2
MADRID			1.0		3.0				0.4		0.5			1.0
SPANISH			12.5											13.0
ALL OTHERS														0.0
TOTAL	0.7	5.0	100.0		78.0	7.0			16.9		150.8			358.4

SWEET CLOVER

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN				NORTH CENTRAL			
VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964	
	1000 ACRES				1000 ACRES		
COMMON 1	303.4	2.5	0.00	COMMON 1	1,722.8	2,055.5	64.99
			1.0	DENTA	-	10.6	0.34
TOTAL		2.5		EVERGREEN	39.6	34.1	1.08
				GOLCTCP	7.1	1.9	0.06
				HUBAM	20.9	31.2	0.99
				MACRID	1,051.3	999.5	31.60
				SPANISH	11.1	0.0	0.00
				ALL OTHERS	104.6	30.0	0.95
				TOTAL		3,162.8	

SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964			
	1000 ACRES				1000 ACRES				
COMMON 1	62.4	98.3	25.69	COMMON 1	210.9	320.5	89.43	1.0	
EVERGREEN	13.0	21.0	5.49	GOLCTOP	0.3	0.8	0.22	1.0	
FLCRANA	49.0	30.8	8.05	HUBAM	16.0	18.2	5.08	1.0	
HUBAM	262.3	188.5	49.26	MADRIC	13.1	4.9	1.37	1.0	
ISRAEL	4.8	5.0	1.31	SPANISH	-	1.0	0.28	1.0	
MADRIC	26.3	38.0	9.93	ALL OTHERS	6.5	13.0	3.63	1.0	
ALL OTHERS	0.2	1.1	0.29						
TOTAL	382.7			TOTAL	358.4				

SWEET CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	EXPECTED REPORTING RECOMMENDING		TREND	NO.
	AVERAGE		TOTAL ACREAGE	PERCENT		
COMMON	2,299.5	2,476.8	63.40		1.0	27
MADRID	1,090.7	1,042.4	26.68		1.0	17
HUBAM	299.2	237.9	6.09		0.9	17
EVERGREEN	52.6	55.1	1.41		1.1	9
ALL OTHERS	111.3	44.1	1.13		0.8	6
FLORANA	49.0	30.8	0.79		0.8	3
DENTA	-	10.6	0.27		1.3	4
ISRAEL	4.8	5.0	0.13		1.0	2
GOLDTOP	7.4	2.7	0.07		1.1	6
SPANISH	11.1	1.0	0.03		1.0	3
TOTAL		3,906.4				

CRIMSON CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	P.E. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	N.VA. 1000 ACRES	TOTAL 1000 ACRES
COMMON		8.0	2.0	15.0			0.5					4.0	29.5
TOTAL		8.0	2.0	15.0			0.5					4.0	29.5

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
OIXIE													0.0
ALL OTHERS													1.0
TOTAL													1.0

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
ALLEN				1.5		9.7			0.2	0.2				1.5
AUBURN	14.0		0.1	1.5		7.3						0.4		26.1
AUTAUCA	130.0		0.1	0.5		1.1						37.0		182.5
CHIEF	0.5	1.5		1.5		1.5			0.1	0.6				5.5
COMMON	50.0	3.0		40.0	1.5	6.7	10.0	48.0	1.5		0.5		200.0	400.7
OIXIE	7.0	94.0	1.0	154.5		7.2	2.5	2.0		2.0	0.5	7.5		278.2
FRONTIER	0.5						2.5			0.1				3.1
TALLADEGA							10.0					12.0		44.1
THORNTON	22.0		0.1	0.5		26.8				18.0				44.8
ALL OTHERS														0.5
TOTAL	224.0	98.5	1.3	200.0	1.5	58.8	35.0	50.0	1.8	20.9	41.0	56.9	200.0	989.7

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAH. 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
CHIEF														0.0
COMMON		110.0						12.0						122.0
OIXIE		10.0						5.0						25.0
ALL OTHERS														16.0
TOTAL		120.0						17.0						137.0

NORTH CENTRAL

ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND
1959-63 AVERAGE	1964	
1000 ACRES		
-	0.0	0.0
-	1.0	1.0
	1.0	

ACREAGE		WESTERN	
PERCENT OF	EXPECTED TREND		
TOTAL	ACREAGE		
1959-63 AVERAGE	1964		
1000 ACRES			
0.5	0.0	0.00	0.0
100.7	122.0	89.05	1.0
19.6	5.0	3.65	1.0
7.0	10.0	7.30	1.1
	137.0		

CRIMSON CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE	EXPECTED TREND	REPORTING NO.	RECOMMENDING NO.
	AVERAGE		PERCENT			
COMMON	722.5	552.2	42.27	1.0	17	12
DIXIE	474.2	283.2	24.47	1.1	12	12
AUTAUGA	159.7	185.5	16.03	1.0	7	7
ALL OTHERS	222.1	55.8	4.82	0.9	4	4
TALLADEGA	43.2	44.1	3.81	1.0	4	4
AUBURN	24.4	26.1	2.26	0.9	7	7
CHIEF	3.6	5.2	0.45	1.1	8	8
FRONTIER	-	3.1	0.27	1.0	3	3
ALLEN	1.2	1.5	0.12	1.0	1	1
THORNTON	4.7	0.5	0.04	1.0	1	1
TOTAL		1,157.2				

VETCH Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

VARIETY	CONN. 1000 ACRES 1000 ACRES	DEL. 1000 ACRES 1000 ACRES	ME. 1000 ACRES 1000 ACRES	MD. 1000 ACRES 1000 ACRES	MASS. 1000 ACRES 1000 ACRES	N.H. 1000 ACRES 1000 ACRES	N.J. 1000 ACRES 1000 ACRES	N.Y. 1000 ACRES 1000 ACRES	PA. 1000 ACRES 1000 ACRES	R.I. 1000 ACRES 1000 ACRES	VT. 1000 ACRES 1000 ACRES	N.H.A. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES
COMMON				1.0									1.0
FAIRY		5.0		10.0			2.0			0.1			17.1
ALL OTHERS				0.5									0.5
TOTAL				11.5			2.0			0.1			18.6

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES 1000 ACRES	IND. 1000 ACRES 1000 ACRES	IOWA 1000 ACRES 1000 ACRES	KANS. 1000 ACRES 1000 ACRES	MICH. 1000 ACRES 1000 ACRES	MINN. 1000 ACRES 1000 ACRES	MO. 1000 ACRES 1000 ACRES	NEBR. 1000 ACRES 1000 ACRES	N.OAK. 1000 ACRES 1000 ACRES	OHIO 1000 ACRES 1000 ACRES	S.OAK. 1000 ACRES 1000 ACRES	MISC. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES
COMMON													
FAIRY	8.0			25.0	20.0	0.1	100.0			5.0			5.1
MACISON						0.9		60.0		1.0			154.9
TOTAL				25.0	20.0	1.0	100.0	60.0		6.0			220.0

SOUTHERN

VARIETY	ALA. 1000 ACRES 1000 ACRES	ARK. 1000 ACRES 1000 ACRES	FLA. 1000 ACRES 1000 ACRES	GA. 1000 ACRES 1000 ACRES	KY. 1000 ACRES 1000 ACRES	LA. 1000 ACRES 1000 ACRES	MISS. 1000 ACRES 1000 ACRES	N.C. 1000 ACRES 1000 ACRES	OKLA. 1000 ACRES 1000 ACRES	S.C. 1000 ACRES 1000 ACRES	TENN. 1000 ACRES 1000 ACRES	TEXAS 1000 ACRES 1000 ACRES	VA. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES
COMMON														
FAIRY	3.0	300.0	2.0	12.0	8.0	50.0	50.0	0.5	5.0			12.0		80.5
LANA	250.0		2.0		10.0	96.0		5.0	35.0		25.0	320.0		1,105.0
MACISON									0.2	7.0		45.0		52.2
WARRIOR	20.0			0.1					0.5					0.5
WILLAMETTE	75.0			4.0		0.2				0.5		10.0		20.6
WOOLY POO	1.0					62.6			0.3	0.5		1.0		89.7
ALL OTHERS														2.3
TOTAL	349.0	300.0	4.0	16.1	18.0	208.8	50.0	5.5	41.0	8.0	25.0	388.0		1,413.4

WESTERN

VARIETY	ARIZ. 1000 ACRES 1000 ACRES	CALIF. 1000 ACRES 1000 ACRES	COLO. 1000 ACRES 1000 ACRES	IDAHO 1000 ACRES 1000 ACRES	MONT. 1000 ACRES 1000 ACRES	NEV. 1000 ACRES 1000 ACRES	N.MEX. 1000 ACRES 1000 ACRES	ORE. 1000 ACRES 1000 ACRES	UTAH 1000 ACRES 1000 ACRES	WASH. 1000 ACRES 1000 ACRES	WYO. 1000 ACRES 1000 ACRES	ALASKA 1000 ACRES 1000 ACRES	HAWAII 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES
COMMON														
FAIRY		20.0	1.0					35.0	0.1	45.0				21.1
LANA		2.0							0.1					82.1
MACISON		25.0												25.0
PURPLE														0.5
WILLAMETTE		100.0						25.0						100.0
WOOLY POO		10.0												25.0
TOTAL		157.0	1.5					60.0	0.2	45.0				263.7

VETCH Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN				NORTH CENTRAL			
VARIETY	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		1959-63 AVERAGE	1964		
	1000 ACRES			1000 ACRES			
COMMON	4.3	1.0	5.38	1.0	1.0	8.4	5.1
HAIRY	10.9	17.1	91.94	1.0	1.0	294.2	154.9
ALL OTHERS	-	0.5	2.69	1.0	1.0	70.3	60.0
TOTAL		18.6				220.0	
SOUTHERN				WESTERN			
VARIETY	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		1959-63 AVERAGE	1964		
	1000 ACRES			1000 ACRES			
COMMON	96.3	80.5	5.70	1.0	1.0	20.7	21.1
HAIRY	942.0	1,105.0	78.18	1.0	1.0	91.1	82.1
LANA	15.9	52.2	3.69	1.1	1.1	6.8	25.0
MACISON	1.0	0.5	0.04	0.9	0.9	1.2	0.5
WARRIOR	13.3	20.6	1.46	1.0	1.0	98.0	100.0
WILLAMETTE	111.0	89.7	6.35	0.9	0.9	26.0	25.0
WOOLY POD	3.8	2.3	0.16	1.0	1.0	8.8	10.0
ALL OTHERS	64.9	62.6	4.43	1.0	1.0		
TOTAL		1,413.4				263.7	

VETCH Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE	EXPECTED TREND	REPORTING NO.	RECOMMENDING NO.
	AVERAGE		PERCENT			
HAIRY	1,338.4	1,359.1	70.95	1.0	25	22
WILLAMETTE	137.0	114.7	5.99	0.9	7	6
COMMON	129.7	107.7	5.62	1.0	14	8
PURPLE	98.0	100.0	5.22	1.0	1	1
LANA	22.7	77.2	4.03	1.1	4	3
ALL OTHERS	64.9	63.1	3.29	1.0	2	1
MADISON	72.5	61.0	3.18	0.8	4	4
WARRIOR	13.3	20.6	1.08	1.0	4	3
WOOLY POD	12.6	12.3	0.64	1.0	5	5
TOTAL		1,915.7				

TREFOIL Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	N.VA. 1000 ACRES	TOTAL 1000 ACRES
CASCADE	1.5	1.2					0.1					0.1	0.1
COMMON	3.0		0.6	0.5		0.9	0.8	200.0	15.0	0.1	22.0	1.0	3.5
EMPIRE							0.2						243.6
GRANGER							0.2						0.2
IMPORTEO	0.5	0.2	1.0	0.1		0.3	0.1	200.0	60.0		4.0		264.1
MANSFIELO	0.5	0.2	0.5	0.2		0.2	0.8	10.0	8.0		22.0	1.0	43.2
VIKING								300.0	37.0	0.1	7.0	1.0	347.5
TOTAL	5.5	1.6	2.1	0.8		1.4	2.6	710.0	120.0	0.2	55.0	3.0	902.2

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON	40.0	4.0	200.0		22.0	15.0	3.5	7.5		100.0			129.5
EMPIRE		1.0			1.0			0.7		25.0	0.6	0.7	290.5
IMPORTEO													1.0
MANSFIELO	2.0	1.0			6.0	2.0	0.5	0.3		50.0			59.3
VIKING										25.0			27.5
ALL OTHERS													
TOTAL	42.0	6.0	200.0		29.0	17.0	4.0	8.5		200.0	0.6	0.7	507.8

TREFOIL Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

VARIETY	ALA. 1000 ACRES 1000 ACRES	ARK. 1000 ACRES 1000 ACRES	FLA. 1000 ACRES 1000 ACRES	GA. 1000 ACRES 1000 ACRES	KY. 1000 ACRES 1000 ACRES	LA. 1000 ACRES 1000 ACRES	MISS. 1000 ACRES 1000 ACRES	N.C. 1000 ACRES 1000 ACRES	OKLA. 1000 ACRES 1000 ACRES	S.C. 1000 ACRES 1000 ACRES	TENN. 1000 ACRES 1000 ACRES	TEXAS 1000 ACRES 1000 ACRES	VA. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
COMMON					2.0			0.2						2.0
DOUGLAS					1.5			0.2						0.2
EMPIRE											0.1			1.5
GRANGER														0.2
ALL OTHERS														0.1
TOTAL					3.5			0.4			0.1			4.0

WESTERN

VARIETY	ARIZ. 1000 ACRES 1000 ACRES	CALIF. 1000 ACRES 1000 ACRES	COLO. 1000 ACRES 1000 ACRES	IDAHO 1000 ACRES 1000 ACRES	MONT. 1000 ACRES 1000 ACRES	NEV. 1000 ACRES 1000 ACRES	N.MEX. 1000 ACRES 1000 ACRES	ORE. 1000 ACRES 1000 ACRES	UTAH 1000 ACRES 1000 ACRES	WASH. 1000 ACRES 1000 ACRES	WYO. 1000 ACRES 1000 ACRES	ALASKA 1000 ACRES 1000 ACRES	HAWAII 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
BEAVER								3.0		10.0				13.0
CASCADE		5.0						2.0		15.0				22.0
COMMON	0.5	400.0	1.0					2.0	0.1					403.6
DUCKS								10.0						10.0
EMPIRE		5.0	0.5		0.6	0.4		1.0			0.2			7.7
GRANGER					0.1	0.1		6.0						6.1
IMPORTED								2.0						2.0
MANSFIELD		1.0			0.1	0.1					0.1			1.0
TANA			0.5			0.1								0.1
VIRING											0.3			0.3
TOTAL	0.5	411.0	2.0		0.7	0.6		26.0	0.1	25.0	0.3			466.2

TREFOIL Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN				NORTH CENTRAL			
VARIETY	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		1959-63 AVERAGE	1964		
	1000 ACRES			1000 ACRES			
CASCADE	0.1	0.1	COMMON	224.8	129.5	25.50	0.8
COMMON	251.0	3.5	EMPIRE	214.2	290.5	57.21	1.1
EMPIRE	150.0	243.6	IMPORTED	-	1.0	0.20	1.0
GRANGER	0.2	0.2	MANSFIELD	0.0	0.0	0.00	0.0
IMPORTED	5.0	264.1	VIKING	55.7	59.3	11.68	0.8
MANSFIELD	17.5	43.2	ALL OTHERS	3.6	27.5	5.42	1.0
VIKING	181.5	347.5					
TOTAL		902.2	TOTAL		507.8		
SOUTHERN				WESTERN			
VARIETY	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		1959-63 AVERAGE	1964		
	1000 ACRES			1000 ACRES			
COMMON	4.7	2.0	BEAVER	7.3	13.0	2.79	1.0
DOUGLAS	0.2	0.2	CASCADE	13.7	22.0	4.72	1.0
EMPIRE	1.2	1.5	COMMON	401.1	403.6	86.57	1.0
GRANGER	0.9	0.2	DOUGLAS	10.5	2.15	2.15	1.0
ALL OTHERS	-	0.1	EMPIRE	8.3	7.7	1.65	1.0
			GRANGER	9.1	6.1	1.31	1.0
TOTAL		4.0	IMPORTED	-	2.0	0.43	1.0
			MANSFIELD	1.0	1.0	0.21	1.0
			TANA	-	0.1	0.02	1.0
			VIKING	1.0	0.7	0.15	1.0
			TOTAL		466.2		

TREFOIL Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		TOTAL ACREAGE PERCENT	EXPECTED TRENDS	S T A T E S	
	1959-63	1964			REPORTING	RECOMMENDING
	AVERAGE				NO.	NO.
COMMON	881.6	538.6	28.62	1.0	12	5
EMPIRE	373.7	543.3	28.91	1.1	27	23
VIKING	238.2	407.5	21.67	1.0	20	19
IMPORTED EUROPEAN	5.0	267.1	14.21	1.1	7	4
MANSFIELD	18.5	44.2	2.35	1.0	13	13
ALL OTHERS	3.6	27.6	1.47	1.0	4	2
CASCADE	13.8	22.1	1.18	1.0	5	5
BEAVER	7.3	13.0	0.69	1.0	2	2
DOUGLAS	10.7	10.2	0.54	1.0	2	2
GRANGER	10.2	6.5	0.35	1.0	6	6
TANA	-	0.1	0.01	1.7	1	1
TOTAL		1,880.2				

BROMEGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MO. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	W.VA. 1000 ACRES	TOTAL 1000 ACRES
ACHENBACH	1.0				0.2				0.5				1.2
COMMON NORTHERN	4.0		2.0	4.0	2.5		35.0	50.0	19.5		27.0		3.0
COMMON SOUTHERN				0.5									141.5
ELSBERRY	1.0				0.2								0.5
LANCASTER	1.0	0.5	9.0	3.0	2.5	7.0	12.0	120.0	35.0	0.8	34.0		1.2
LINCOLN													224.8
MANCHAR					0.6		2.0	80.0	10.0	0.2	4.0		0.0
SARATOGA			2.0	0.1		1.0							101.9
ALL OTHERS													1.0
TOTAL	7.0	0.5	13.0	7.3	6.0	11.0	49.0	250.0	65.0	1.0	65.0		475.1

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
ACHENBACH	10.0	1.0					190.0		10.0	50.0	25.0	10.0	1,851.0
COMMON NORTHERN	6.0	2.0				125.0		22.5	850.0	500.0	150.0	1,275.0	2,630.5
COMMON SOUTHERN	50.0	75.0			219.0	375.0		180.0	150.0	20.0	80.0	250.0	1,875.0
ELSBERRY													23.0
FISCHER			50.0				3.0		3.0		20.0		76.0
HOMESTEADER													81.0
LANCASTER								33.7	2.0	15.0	80.0		70.7
LINCOLN	180.0	33.5	500.0		25.0	1,000.0	15.0	461.2	550.0	70.0	175.0	10.0	3,019.7
LYCN													0.0
MANCHAR									5.0			4.9	9.9
SAC									1.0			0.1	1.1
SARATOGA				60.0			0.5			15.0			15.5
SOUTHLAND		1.0					75.0	393.7	5.0	10.0			150.0
ALL OTHERS										20.0			414.7
TOTAL	246.0	112.5	555.0	1,610.0	440.0	1,500.0	286.5	1,091.1	1,577.0	700.0	550.0	1,550.0	10,218.1

BROMEGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
ACHENBACH					18.0				1.5			0.5		20.0
COMMON SOUTHERN					15.0								1.0	1.0
LINCOLN					35.0				6.0			0.4		15.4
SOUTHLAND		10.0										0.7		51.7
TOTAL		10.0			68.0				7.5			1.6	1.0	88.1

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYOM. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
ACHENBACH			20.0								0.1			22.1
COMMON NORTHERN			10.0		45.0									82.0
COMMON SOUTHERN	0.9		50.0	20.0				7.0	68.0		50.0			168.9
LANCASTER			5.0											5.0
LINCOLN		15.0	30.0		16.0	2.0		1.0		12.0	20.0			96.0
LYNN			30.0											30.0
MANCHAR			1.0	20.0	3.5	3.0		7.0	6.5	320.0	20.0			381.0
SARATOGA		15.0	2.0							5.0				22.0
SOUTHLAND			0.5											0.5
ALL OTHERS			1.5			3.0								4.5
TOTAL	0.9	30.0	150.0	40.0	64.5	10.0		15.0	74.5	337.0	90.1			812.0

BROMEGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - 8Y REGIONS

NORTH EASTERN				NORTH CENTRAL			
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964	
ACHENBACH	1.8	1.2	0.25	ACHENBACH	1,713.6	1,851.0	18.11
COMMON NORTHERN	22.8	3.0	0.63	COMMON NORTHERN	1,972.3	2,630.5	25.74
COMMON SOUTHERN	116.2	141.5	29.78	COMMON SOUTHERN	2,163.6	1,875.0	18.35
ELSBERRY	3.0	0.5	0.11	ELSBERRY	34.1	23.0	0.23
LANCASTER	0.1	1.2	0.25	FISCHER	112.4	76.0	0.74
LINCOLN	234.5	224.8	47.32	HOMESTEADER	105.6	81.0	0.79
MANCHAR	-	0.0	0.00	LANCASTER	42.6	70.7	0.69
SARATOGA	48.4	101.9	21.45	LINCOLN	2,474.0	3,019.7	29.55
ALL OTHERS	1.0	1.0	0.21	LYON	62.0	0.0	0.00
TOTAL		475.1		MANCHAR	19.1	9.9	0.10
				SAC	-	1.1	0.01
				SARATOGA	4.5	15.5	0.15
				SOUTHLAND	81.2	150.0	1.47
				ALL OTHERS	198.1	414.7	4.06
				TOTAL		10,218.1	
SOUTHERN				WESTERN			
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964	
ACHENBACH	13.4	20.0	22.70	ACHENBACH	31.2	22.1	2.72
COMMON SOUTHERN	9.5	1.0	1.14	COMMON NORTHERN	85.6	82.0	10.10
LINCOLN	9.5	15.4	17.48	COMMON SOUTHERN	128.5	168.9	20.80
SCOTTLAND	20.8	51.7	58.68	LANCASTER	1.0	5.0	0.62
TOTAL		88.1		LINCOLN	90.0	96.0	11.82
				LYON	17.6	30.0	3.69
				MANCHAR	365.5	381.0	46.92
				SAC	-	0.0	0.00
				SARATOGA	16.1	22.0	2.71
				SOUTHLAND	-	0.5	0.06
				ALL OTHERS	13.0	4.5	0.55
				TOTAL		812.0	

BROMEGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE PERCENT	EXPECTED TREND	REPORTING NO.	RECOMMENDING NO.
	AVERAGE					
LINCOLN	2,808.0	3,355.9	28.95	1.0	33	29
COMMON NORTHERN	2,080.7	2,715.5	23.42	1.0	14	7
COMMON SOUTHERN	2,417.8	2,186.4	18.86	1.0	21	10
ACHENBACH	1,760.0	1,894.3	16.34	1.0	19	14
ALL OTHERS	212.1	420.2	3.62	1.0	6	5
MANCHAR	384.6	390.9	3.37	0.9	12	11
SOUTHLAND	102.0	202.2	1.74	1.2	12	11
HOMESTEADER	105.6	81.0	0.70	1.0	2	2
LANCASTER	43.7	76.9	0.67	1.1	7	6
FISCHER	112.4	76.0	0.66	0.8	6	5
SARATOGA	69.0	49.4	0.43	1.1	14	13
LYON	79.6	30.0	0.26	1.0	3	3
ELSBERRY	37.1	23.5	0.20	1.3	3	2
SAC	0.0	1.1	0.01	1.1	3	3
TOTAL		11,503.3				

ORCHARDGRASS Table 1

ACREAGES BY VARIETIES - 8Y STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MO. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	W.VA. 1000 ACRES	TOTAL 1000 ACRES
COMMON	7.0	17.0	2.5	110.0	7.0	1.4	60.0	35.0	62.0	0.4			302.3
DANISH				1.0									1.0
LATE FINNISH				0.5	10.0	1.0							11.5
MASS PAROY	1.0		0.3		2.0	0.1					1.0		4.4
PENNLATE	4.0		0.5		0.1	0.1	4.0	10.0	24.0	0.1	1.0		43.8
POTOMAC				0.3		0.1	10.0		1.0				11.4
S-37		4.0		2.5	5.0	1.0	16.0	5.0	63.0	0.4	2.0		98.9
ALL OTHERS											6.0		6.0
TOTAL	12.0	21.0	3.3	114.3	24.1	3.7	90.0	50.0	150.0	0.9	10.0		479.3

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON	260.0	84.0			2.0		390.0	18.5		150.0	0.4	100.0	1,004.9
DANISH	8.0	44.0	600.0										652.0
FROCE	2.0												2.0
LATAR		0.5											0.5
PENNLATE													5.0
POTOMAC	4.0	0.5	15.0				4.0	10.5		5.0			69.0
S-37			50.0				4.0			35.0			10.0
STERLING					3.0	10.0				10.0			54.0
ALL OTHERS													13.0
TOTAL	274.0	129.0	665.0		5.0	10.0	398.0	29.0		200.0	0.4	100.0	1,810.4

ORCHARDGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	L.A. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
BOONE					10.0					0.1	2.0			12.1
COMMON	40.0	25.0		40.0	250.0			230.0	2.0	0.9	235.0		450.0	1,272.9
DANISH		100.0			22.0			180.0		0.5	25.0			327.5
KY SELECT					10.0									10.0
POTOMAC		5.0			2.0			25.0	1.0	0.2	3.0		1.0	37.2
TOTAL	40.0	130.0		40.0	294.0			435.0	3.0	1.7	265.0		451.0	1,659.7

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLD. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N-MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
AKAROA		200.0				2.0		9.0		40.0				251.0
AVCN								0.1						0.0
BOONE					10.5	18.0	2.0	50.0	150.0	40.0	50.0			0.1
COMMON	0.5	400.0	90.0	40.0				10.0		10.0				851.0
DANISH								0.1						20.0
FRODE								15.0						0.1
LATAR		2.0	4.0	15.0	3.0	4.0		0.1	1.0	80.0	2.0			126.0
MASS HARDY								0.1						0.1
PENNLATE								40.0						0.5
POTOMAC		0.5	5.0		4.8	1.0		10.0		60.0				111.3
S-143							3.0							10.0
SMOITA								0.1						3.0
STERLING														0.1
ALL OTHERS				1.0		2.0								3.0
TOTAL	0.5	602.5	100.0	55.0	18.3	27.0	5.0	134.9	151.0	230.0	52.0			1,376.2

ORCHARDGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - 8Y REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		VARIETY	PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964		
	1000 ACRES	1000 ACRES			1000 ACRES	1000 ACRES		
COMMON	326.2	302.3	COMMON	63.07	1,647.8	1,004.9	55.51	1.0
DANISH	1.0	1.0	DANISH	0.21	8.3	652.0	36.01	1.0
LATE FINNISH	2.6	11.5	FRODE	2.40	-	2.0	0.11	1.0
MASS HARDY	2.6	4.4	LATAR	0.92	-	0.5	0.03	1.2
PENNLATE	10.7	43.8	PENNLATB	9.14	28.3	5.0	0.28	0.7
POTOMAC	6.5	11.4	POTOMAC	2.38	15.4	69.0	3.81	1.2
S-37	96.9	20.63	S-37	0.9	71.1	10.0	0.55	0.7
ALL OTHERS	0.2	6.0	STERLING	1.25	2.0	54.0	2.98	1.3
			ALL OTHERS	1.0	-	13.0	0.72	1.0
TOTAL		479.3				1,810.4		

VARIETY	SOUTHERN				WESTERN			
	ACREAGE		VARIETY	PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964		
	1000 ACRES	1000 ACRES			1000 ACRES	1000 ACRES		
BOONE	2.8	12.1	AKAROA	0.73	187.6	251.0	18.24	1.1
COMMON	1,405.9	1,272.9	AVCN	76.69	-	0.0	0.00	0.0
DANISH	300.3	327.5	BOCNE	19.73	-	0.1	0.01	1.1
KY SELECT	2.1	10.0	COMMON	0.60	850.1	851.0	61.84	1.0
POTCMAC	17.2	37.2	DANISH	2.24	22.5	20.0	1.45	1.0
			FRODE	1.1	0.1	0.1	0.01	1.0
			LATAR		57.5	126.0	9.16	1.1
TOTAL		1,659.7	MASS HARDY		-	0.1	0.01	1.1
			PENNLATE		1.1	0.5	0.04	1.2
			POTCMAC		49.7	111.3	8.09	1.0
			S-143		125.0	10.0	0.73	1.0
			SANCIA		2.5	3.0	0.22	1.0
			STERLING		0.1	0.1	0.01	1.1
			ALL OTHERS		2.0	3.0	0.22	1.0
			TOTAL			1,376.2		

ORCHARDGRASS Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.		A C R E A G E		TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	1959-63	AVERAGE	1964				NO.	NO.
COMMON	4,250.0		3,431.1		64.43	1.0	40	25
DANISH	332.1		1,000.5		18.79	1.0	11	3
AKAROA	187.6		251.0		4.71	1.1	5	4
POTOMAC	88.8		228.9		4.30	1.1	26	22
LATAR	57.5		126.5		2.38	1.1	10	9
S-37	168.0		108.9		2.04	0.8	10	6
STERLING	2.1		54.1		1.02	1.3	4	4
PENNLATE	40.1		49.3		0.93	1.1	16	14
ALL OTHERS	2.2		22.0		0.41	1.0	5	4
BOONE	2.8		12.2		0.23	1.2	5	5
LATE FINNISH	2.6		11.5		0.22	0.8	3	-
S-143	125.0		10.0		0.19	1.0	1	-
KY SELECT	2.1		10.0		0.19	1.2	1	1
MASS HARDY	2.6		4.5		0.08	1.1	6	6
SANDIA	2.5		3.0		0.06	1.0	1	1
FRODE	0.1		2.1		0.04	1.0	2	-
AVON	-		0.0		*	0.0	1	1
TOTAL			5,325.6					

TIMOTHY Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MD. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	N.H.A. 1000 ACRES	TOTAL 1000 ACRES
CLAIR	10.0	20.0	20.0	0.5	25.0	15.0	1.0	610.0	85.0	1.0	40.0	1.5	809.0
CLIMAX	25.0	20.0	120.0	260.0	100.0	160.0	65.0	198.0	1,309.0	0.2	260.0	2,517.2	2,517.2
COMMON	10.0	2.0	2.0	2.5	2.5	0.1	20.0	20.0	6.0	3.0	3.0	43.6	43.6
ESSBX	45.0	20.0	142.0	260.5	127.5	175.1	69.0	828.0	1,400.0	1.2	303.0	3,371.3	3,371.3

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.D.A. 1000 ACRES	OHIO 1000 ACRES	S.D.A. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
CLAIR	13.0	13.0	100.0	5.0	493.0	11.0	1.0	13.0	0.2	13.0	0.3	100.0	13.0
CLIMAX	1,000.0	560.0	900.0	493.0	750.0	1,600.0	1,600.0	25.0	1,150.0	1,950.0	0.3	1,150.0	255.2
COMMON													8,403.3
DRUMMOND													0.0
ESSBX						1.5	1.0	13.5		12.0			13.5
ITASCA						1.0	1.0	1.0					1.0
LORAIN					1.5	1.0		2.5					2.5
ALL OTHERS	50.0			0.5				50.5					50.5
TOTAL	1,050.0	573.0	1,000.0	500.0	764.5	1,601.0	0.2	2,000.0	0.3	1,250.0	0.3	1,250.0	8,739.0

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
CLAIR					50.0						2.5		52.5	52.5
CLIMAX	30.0	30.0			140.0						13.0		0.2	0.2
COPPON					190.0						15.5		55.0	238.0
TOTAL													55.2	290.7

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
CLAIR														0.0
CLIMAX		50.0	1.0		350.0	5.0		1.0	4.0	80.0	200.0			82.0
COMMON			148.0							25.0				782.0
ESSBX			0.5		0.1									0.5
HOPKINS														0.1
ITASCA														0.0
MILTON														0.0
ALL OTHERS			0.5											0.5
TOTAL		50.0	150.0	350.1	5.0	5.0	1.0	4.0	4.0	105.0	200.0			865.1

ACCREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN					NORTH CENTRAL				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964				1959-63 AVERAGE	1964		
	1000 ACRES	1000 ACRES				1000 ACRES	1000 ACRES		
CLAIR	0.5	1.5	0.04	1.1	CLAIR	-	13.0	0.15	1.3
CLIMAX	518.3	809.0	24.00	1.1	CLIMAX	211.0	255.2	2.92	1.1
COMMON	3,511.4	2,517.2	74.67	0.9	COMMON	7,900.3	8,403.3	96.16	1.1
ESSEX	23.0	43.6	1.29	1.1	DRUMMOND	-	0.0	0.00	0.0
TOTAL	3,371.3				ESSEX	0.8	13.5	0.15	1.3
					ITASCA	1.0	1.0	0.01	1.2
					LORAIN	63.7	2.5	0.03	1.1
					ALL OTHERS	500.5	50.5	0.58	1.0
					TOTAL		8,739.0		
SOUTHERN					WESTERN				
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964				1959-63 AVERAGE	1964		
	1000 ACRES	1000 ACRES				1000 ACRES	1000 ACRES		
CLAIR	17.7	52.5	18.06	1.2	CLAIR	-	0.0	0.00	0.0
CLIMAX	1.1	0.2	0.07	1.0	CLIMAX	45.7	82.0	9.48	1.2
COMMON	143.3	238.0	81.87	1.1	COMMON	505.0	782.0	90.39	1.0
TOTAL	290.7				ESSEX	-	0.5	0.06	1.1
					HOPKINS	0.1	0.1	0.01	1.0
					ITASCA	-	0.0	0.00	0.0
					MILTON	-	0.0	0.00	0.0
					ALL OTHERS	-	0.5	0.06	1.0
					TOTAL		865.1		

TIMOTHY Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE	EXPECTED TREND	REPORTING NO.	RECOMMENDING NO.
	AVERAGE		PERCENT			
COMMON	12,060.0	11,940.5	90.01	1.1	31	22
CLIMAX	776.1	1,146.4	8.64	1.1	24	20
CLAIR	18.2	67.0	0.51	1.2	6	4
ESSEX	23.8	57.6	0.43	1.1	10	7
ALL OTHERS	500.5	51.0	0.38	1.0	3	2
LORAIN	63.7	2.5	0.02	1.1	2	1
ITASCA	1.0	1.0	0.01	1.3	3	3
HOPKINS	0.1	0.1	::	1.0	1	1
BOONE	2.8	0.0	::	0.0	1	1
TOTAL		13,266.1				

WHEATGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES 1000 ACRES	IND. 1000 ACRES 1000 ACRES	IOWA 1000 ACRES 1000 ACRES	KANS. 1000 ACRES 1000 ACRES	MICH. 1000 ACRES 1000 ACRES	MINN. 1000 ACRES 1000 ACRES	MO. 1000 ACRES 1000 ACRES	NEBR. 1000 ACRES 1000 ACRES	N.-OAK. 1000 ACRES 1000 ACRES	OHIO 1000 ACRES 1000 ACRES	S.-OAK. 1000 ACRES 1000 ACRES	MISC. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
AMUR								8.4			0.5		8.9
FAIRWAY CRESTEO											125.0		125.0
GREENAR											0.3		0.3
INTERMEDIATE COMMON											4.0		4.0
NEBRASKA 50								117.7	10.0		0.1		132.7
NEBRASKA 98526								25.2			0.1		25.2
NORCAN								16.8			6.0		22.8
OAFÉ											10.0		10.0
PURBESCENT											1.2		1.2
REE											0.1		0.1
SIBERIAN											0.2		0.2
SLINGER											0.2		0.2
STANDARD CRESTEO								327.9	110.0		140.0		667.9
TALL WHEATGRASS								33.6	30.0		77.0		140.6
WESTERN								210.2	40.0		0.4		250.6
ALL OTHERS								25.2					25.2
TOTAL								840.6	991.0		286.8		2,364.4

SOUTHERN

VARIETY	ALA. 1000 ACRES 1000 ACRES	ARK. 1000 ACRES 1000 ACRES	FLA. 1000 ACRES 1000 ACRES	GA. 1000 ACRES 1000 ACRES	KY. 1000 ACRES 1000 ACRES	LA. 1000 ACRES 1000 ACRES	MISS. 1000 ACRES 1000 ACRES	M.C. 1000 ACRES 1000 ACRES	OKLA. 1000 ACRES 1000 ACRES	S.C. 1000 ACRES 1000 ACRES	TENN. 1000 ACRES 1000 ACRES	TEXAS 1000 ACRES 1000 ACRES	VA. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
TALL WHEATGRASS														
WESTERN														
TOTAL														

WESTERN

VARIETY	ARIZ. 1000 ACRES 1000 ACRES	CALIF. 1000 ACRES 1000 ACRES	COLO. 1000 ACRES 1000 ACRES	IDAHO 1000 ACRES 1000 ACRES	MONT. 1000 ACRES 1000 ACRES	NEV. 1000 ACRES 1000 ACRES	N.-MEX. 1000 ACRES 1000 ACRES	ORE. 1000 ACRES 1000 ACRES	UTAH 1000 ACRES 1000 ACRES	WASH. 1000 ACRES 1000 ACRES	WYO. 1000 ACRES 1000 ACRES	ALASKA 1000 ACRES 1000 ACRES	HAWAII 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
ALKAR														
AMUR		1.0	25.0	2.1		1.0		1.0	0.1	30.0	0.4			35.6
FAIRWAY CRESTEO			10.0		3.0			15.0	100.0		51.0			178.0
GREENAR		80.0	35.0	110.0	0.2	2.0		1.5	1.5	120.0	50.0			317.2
INTERMEDIATE COMMON	3.8	80.0	35.0	20.0	4.0	1.0		25.0	54.0		50.0			272.8
LAURENCE 50			1.0											1.0
NEBRASKA 50			25.0	35.0	0.4			6.0	1.5	90.0	20.0			25.4
NORCAN			5.0		0.1					1.0	0.2			207.5
OAFÉ			0.5		0.1					1.0	0.2			1.8
PURBESCENT		5.0	1.5					28.0	1.0		10.0			45.6
REE											5.0			5.0
SIBERIAN			20.0	84.0	1.0	3.0		10.0	0.9	20.0	0.2			119.1
SLINGER			0.5	0.5				6.0	0.1		0.5			27.1
SOCAR			0.5	1.0	0.5						0.1			6.3
STANDARD CRESTEO	5.3	55.0	100.0	855.0	100.0	20.0		200.0	600.0	20.0	100.0			2,115.3
TALL WHEATGRASS	4.0	5.0	50.0	13.0	13.0	8.0		5.0	17.0	2.0	2.0			104.0
TOPAR				50.5	0.1	0.5		0.2	1.5	15.0	1.0			73.3
WESTERN		5.0	75.0	155.0	155.0	2.0		2.0	1.5	35.0	5.1			245.5
WYTMAR				2.6				5.0	0.5					45.5

WHEATGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			
AMUR	3.2	8.9	0.38	1.0
FAIRWAY CRESTED	90.2	125.0	5.29	1.1
GRENAIR	0.3	0.3	0.01	0.8
INTERMEDIATE COMMON	57.4	132.7	5.61	1.0
NEBRASKA 50	25.4	75.7	3.20	1.1
NEBRASKA 98526	-	25.2	1.07	1.1
NORDCAN	445.7	622.8	26.34	1.0
DAVE	1.0	10.0	0.42	1.2
PUBESCENT	1.6	1.2	0.05	1.0
REE	0.3	0.1	0.00	0.8
SIBERIAN	-	0.2	0.01	1.0
SLENDER	106.0	110.0	4.65	1.0
STANDARD CRESTED	511.9	667.9	28.25	0.9
TALL WHEATGRASS	61.6	77.0	3.26	1.1
WESTERN	287.5	482.2	20.39	1.0
ALL OTHERS	-	25.2	1.07	1.0
TOTAL	2,364.4			

VARIETY	SOUTHERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			
TALL WHEATGRASS	-	0.1	0.14	1.0
WESTERN	69.0	70.0	99.86	1.0
TOTAL	70.1			

VARIETY	WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964		
	1000 ACRES			
ALKAR	25.5	35.6	0.91	1.1
AMUR	43.9	76.0	1.95	1.0
FAIRWAY CRESTED	132.7	178.0	4.56	1.0
GREENAR	204.4	317.2	8.12	1.1
INTERMEDIATE COMMON	233.1	272.8	6.98	1.0
LARGO	-	1.0	0.03	1.1
NEBRASKA 50	14.1	25.4	0.65	1.0
NORCAN	116.6	207.5	5.31	1.1
CAFE	-	1.8	0.05	1.1
PUBESCENT	31.0	45.6	1.17	1.1
REE	5.0	5.0	0.13	1.0
SIBERIAN	11.7	119.1	3.05	1.1
SLENDER	16.4	27.1	0.69	1.0
SGCAR	3.9	6.3	0.16	1.0
STANDARD CRESTED	1,115.0	2,115.3	54.15	1.1
TALL WHEATGRASS	72.1	104.0	2.66	1.0
TCPAR	15.7	73.3	1.88	1.1
WESTERN	177.5	245.5	6.28	1.1
WHITMAR	34.8	48.2	1.23	1.0
ALL OTHERS	-	1.5	0.04	1.0
TOTAL	3,906.2			

WHEATGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

ACREAGE

STATES

VARIETY	1959-63		1964	TOTAL ACREAGE PERCENT	EXPECTED TREND	REPORTING		RECOMMENDING
	AVERAGE					NO.	NO.	
STANDARD CRESTED	1,626.9		2,783.2	43.89	1.0	13		11
NORDAN	562.3		830.3	13.09	1.0	10		9
WESTERN	534.0		797.7	12.58	1.0	13		12
INTERMEDIATE COMMON	290.5		405.5	6.39	1.0	13		9
GREENAR	204.7		317.5	5.01	1.1	9		7
FAIRWAY CRESTED	222.9		303.0	4.78	1.0	6		6
TALL WHEATGRASS	133.7		181.1	2.86	1.0	13		13
SLENDER	122.4		137.1	2.16	1.0	6		5
SIBERIAN	11.7		119.3	1.88	1.1	8		5
NEBRASKA 50	39.5		101.1	1.59	1.1	4		5
AMUR	47.1		84.9	1.34	1.0	4		4
TOPAR	15.7		73.3	1.16	1.1	8		6
WHITMAR	34.8		48.2	0.76	1.0	5		5
PUBESCENT	32.6		46.8	0.74	1.1	8		7
ALKAR	25.5		35.6	0.56	1.1	7		5
ALL OTHERS	0.0		26.7	0.42	1.0	2		1
NEBRASKA 98526	-		25.2	0.40	1.1	1		1
OAHÉ	1.0		11.8	0.19	1.2	6		5
SODAR	3.9		6.3	0.10	1.0	7		5
REE	5.3		5.1	0.08	1.0	2		1
LARGO	-		1.0	0.02	1.2	1		1
TOTAL			6,340.7					

RYEGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MA. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	P.L. 1000 ACRES	VT. 1000 ACRES	M.VA. 1000 ACRES	TOTAL 1000 ACRES
ANNUAL 1													
NORLEA		50.0	2.0	4.0		1.0	40.0		10.0	11.0	1.0		119.0
PERENNIAL 2				0.1	0.1	0.1	10.0				0.1		0.2
TOTAL		50.0	2.0	9.1	0.1	1.1	50.0		10.0	12.0	5.1		139.4

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOA. 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
ANNUAL 1													
PERENNIAL 2		27.0			10.0					55.0			92.0
TOTAL		40.0								5.0			45.0
		67.0			10.0					60.0			137.0

SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
ANNUAL 1														
GULF		175.0	805.0	150.0	120.0	6.5	200.0	100.0	18.0	25.0	20.0	25.0	80.0	1,742.5
PERENNIAL 2		10.0	0.5	10.0		94.0	5.0				30.0	125.0		244.5
TOTAL		185.0	813.5	160.0	120.0	10.0	294.0	105.0	18.0	25.0	50.0	150.0	81.0	2,029.5

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
ANNUAL 1														
GULF		200.0	1.0			2.0		110.0		50.0				363.0
LINN								5.0						5.0
NORLEA								30.0						30.0
PERENNIAL 2		650.0	2.5			4.0		50.0	1.0	80.0				787.5
S-23								10.0						10.0
ALL OTHERS											12.0			12.0
TOTAL		850.0	3.5			6.0		210.0	1.0	130.0	12.0			1,212.5

RYEGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - 8Y REGIONS

NORTH EASTERN				NORTH CENTRAL			
VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964	
	1000 ACRES				1000 ACRES		
ANNUAL 1	110.0	119.0	85.37	1.0	69.5	92.0	67.15
NORLEA	-	0.2	0.14	1.1	10.6	45.0	32.85
PERENNIAL 2	12.3	20.2	14.49	1.0			0.9
TOTAL	135.4			TOTAL	137.0		
SOUTHERN				WESTERN			
VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE	PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964	
	1000 ACRES				1000 ACRES		
ANNUAL 1	1,722.5	1,742.5	85.86	1.1	313.3	363.0	29.94
GULF	128.4	244.5	12.05	1.2	5.0	5.0	0.41
PERENNIAL 2	28.6	42.5	2.09	0.9	10.0	30.0	2.47
TOTAL	2,029.5			NORLEA	-	5.0	0.41
				PERENNIAL 2	809.0	787.5	64.95
				S-23	5.3	10.0	0.82
				ALL OTHERS	-	12.0	0.99
				TOTAL	1,212.5		

RYEGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.

VARIETY	A C R E A G E		S T A T E S			
	1959-63	1964	TOTAL ACREAGE	EXPECTED TREND	REPORTING NO.	RECOMMENDING NO.
	AVERAGE		PERCENT			
ANNUAL	2,215.3	2,316.5	65.84	1.1	30	25
PERENNIAL 2	860.5	895.2	25.44	1.0	18	12
GULF	133.4	249.5	7.09	1.2	7	6
LINN	10.0	30.0	0.85	1.1	1	1
ALL OTHERS	-	12.0	0.34	1.0	1	1
S-23	5.3	10.0	0.28	0.9	1	-
NORLEA	-	5.2	0.15	0.9	3	1
TOTAL		3,518.4				

SUDANGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS													
NORTH EASTERN													
VARIETY	CONN. 1000 ACRES	DEL. 1000 ACRES	ME. 1000 ACRES	MO. 1000 ACRES	MASS. 1000 ACRES	N.H. 1000 ACRES	N.J. 1000 ACRES	N.Y. 1000 ACRES	PA. 1000 ACRES	R.I. 1000 ACRES	VT. 1000 ACRES	W.VA. 1000 ACRES	TOTAL 1000 ACRES
COMMON													
GRAZER													6.5
GREENLEAF				0.5	0.2	0.1	0.5	5.0	3.0			3.0	13.8
OTHER HYBRICS	2.0	3.5	1.3	8.1	1.0	0.2	6.0	13.0	4.0	0.2	1.0	7.0	42.3
PIPER	1.0	3.5	1.5	8.0	4.0	1.8	6.0	20.0	20.0	0.4	2.0	10.0	78.2
S-100				2.0	0.2	0.1		2.0	1.0	0.1		2.0	7.4
SUCAX													23.2
SUCAX SX-11			0.5	5.0	0.2	0.1	1.0	10.0	12.0		1.0		6.6
SUP-1-1													0.0
SWEET				3.0			0.5						3.5
WHEELER						0.7	1.0						1.0
ALL OTHERS													0.7
TOTAL	3.0	7.0	3.3	26.6	5.6	3.0	12.5	50.0	43.0	0.7	4.0	25.0	183.7
NORTH CENTRAL													
VARIETY	ILL. 1000 ACRES	IND. 1000 ACRES	IOWA 1000 ACRES	KANS. 1000 ACRES	MICH. 1000 ACRES	MINN. 1000 ACRES	MO. 1000 ACRES	NEBR. 1000 ACRES	N.OAK. 1000 ACRES	OHIO 1000 ACRES	S.OAK. 1000 ACRES	WISC. 1000 ACRES	TOTAL 1000 ACRES
COMMON													
GREENLEAF	0.3		10.0		10.0	40.0	4.0	24.0		2.0	1.0	1.0	92.3
LAFOMA	0.6	3.7	5.0	200.0			4.0			2.0			215.3
OTHER HYBRICS	4.5	10.0		1.5			30.0		47.0	30.0	19.0	55.0	1.5
PIPER	5.0	9.5	30.0	30.0	75.0	150.0	65.0	52.0	56.0	20.0	150.0	83.0	225.5
S-100				12.0					1.0				707.5
SUCAX		1.0		10.0	10.0	100.0	25.0	96.0	1.0	20.0		10.0	118.0
SUCAX SX-11	10.0							6.0	1.0				171.0
SUP-1-1		0.5											0.5
SWEET	4.6	6.9	5.0	1.0	5.0			2.0		1.0	1.0		25.5
SWEET 372				0.5									1.0
TIFT				125.0				16.0					0.5
WHEELER			50.0	220.0	30.0	100.0							141.0
ALL OTHERS													400.0
TOTAL	25.0	31.6	100.0	600.0	130.0	390.0	128.0	196.0	105.0	75.0	170.0	150.0	2,100.6

SUDANGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	GA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
COMMON	0.5	0.8			5.0	6.0	5.0	3.0	5.0			70.0	5.0	95.3
GRAZER									10.0			100.0		115.0
GREENLEAF	1.5					0.2	10.0		10.0	10.0			10.0	41.7
LAFCHA									10.0					10.0
OTHER HYBRIDS	90.5	100.0		3.0	50.0		200.0		20.0	20.0	45.0	500.0		1,028.5
PIPER	4.0	20.0			24.0				5.0		6.0			69.2
SUCAX	40.0								5.0		30.0			51.1
SUCAX SX-11			4.5			7.1	10.0		5.0	60.0		100.0		214.5
SUP-1	0.5			1.0										1.5
SHEET		20.0		4.0	1.0	10.0	30.0	12.0			3.0	90.0	5.0	175.0
SHEET 372								2.0		10.0		1.0		13.0
TIFT				18.0		4.0	5.0	8.0				2.0		41.0
WHEELER	5.0												25.0	38.0
ALL OTHERS														
TOTAL	142.0	140.8	4.5	31.0	80.0	27.5	260.0	25.0	65.0	100.0	84.0	863.0	65.0	1,887.8

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
CALIFORNIA 23														
COMMON	3.3	30.0												30.0
GRAZER			50.0			0.5		5.0	0.8					59.6
GREENLEAF			10.0					1.0						11.1
OTHER HYBRIDS		35.0	30.0		1.5			10.0	0.4	2.0	0.1			73.9
PIPER		90.0	30.0		0.6					30.0	5.0			171.1
SUCAX			40.0								1.0			41.0
SUCAX SX-11		25.0	20.0						0.1					45.1
SUP-1														0.5
SHEET	5.8	30.0	2.5					4.0						43.3
SHEET 372		12.0	2.5											15.0
TIFT														0.5
WHEELER	16.1		50.0											66.1
ALL OTHERS			15.0											15.0
TOTAL	25.2	222.0	250.0		2.1	2.0		20.0	1.3	32.0	16.1			570.7

ACREAGES BY VARIETIES, EXPECTED TRENOS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL				
	ACREAGE		PERCENT CF	EXPECTED TREND	ACREAGE		PERCENT CF	EXPECTED TREND	
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964			
	1000	ACRES	1000	ACRES	1000	ACRES			
COMMON	8.9	6.5	3.54	1.0	COMMON	187.0	92.3	4.39	0.8
GRAZER	0.5	13.8	7.51	1.2	GREENLEAF	237.1	215.3	10.25	0.9
GREENLEAF	-	C.5	0.27	1.0	LAF-CMA	3.4	1.5	0.07	0.8
OTHER HYBRIDS	17.8	42.3	23.03	1.3	OTHER HYBRIDS	16.0	225.5	10.74	1.2
PIPER	73.2	78.2	42.57	1.0	PIPER	518.6	707.5	33.68	0.9
S-100	0.1	7.4	4.03	1.1	S-100	-	1.0	0.05	1.0
SUDAX	0.8	23.2	12.63	1.1	SUDAX	7.0	118.0	5.62	1.3
SX-11	-	6.6	3.59	1.2	SUDAX SX-11	-	171.0	8.14	1.3
SUP-1-1	-	C.C	0.00	0.0	SUP-1-1	-	0.5	0.02	1.3
SWEET	4.0	3.5	1.91	1.0	SWEET	22.4	25.5	1.21	1.0
WHEELER	1.0	1.0	0.54	1.0	SWEET 372	2.4	1.0	0.05	1.0
ALL OTHERS	6.6	C.7	0.38	1.2	TIFT	4.1	C.5	0.02	0.9
					WHEELER	124.9	141.0	6.71	1.0
TOTAL		183.7			ALL OTHERS	195.3	400.0	19.04	1.2

VARIETY	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1959-63 AVERAGE	1964			1959-63 AVERAGE	1964		
	1000 ACRES	1000 ACRES			1000 ACRES	1000 ACRES		
	TOTAL	1,887.8			TOTAL	570.7		
COMMON	253.8	95.3	5.05	CALIFORNIA 23	37.5	30.0	5.26	0.9
GRAZER	-	115.0	6.09	COMMON	84.9	59.6	10.44	0.7
GREENLEAF	31.1	41.7	2.21	GREENLEAF	12.9	11.1	1.94	1.0
LAFOMA	15.0	10.0	0.53	OTHER HYBRIDS	18.5	73.9	12.95	1.2
OTHER HYBRIDS	16.0	1,028.5	54.48	PIPER	159.5	171.1	29.98	1.0
PIPER	78.7	69.2	3.67	SUCAX	-	41.0	7.18	1.3
SUCAX	11.3	57.1	3.02	SUCAX SX-11	-	45.1	7.90	1.2
SUCAX SX-11	5.0	214.5	11.36	SUFI-1	-	0.5	0.09	1.0
SUFI-1	1.1	1.5	0.08	SWEET	16.7	12.3	2.16	1.0
SWEET	190.8	175.0	9.27	SWEET 372	34.8	32.5	5.69	0.9
SWEET 372	573.0	1.0	0.05	TIFT	12.1	2.10	0.9	0.9
TIFT	47.9	41.0	2.17	WHEELER	54.0	50.0	8.76	0.8
ALL OTHERS	10.0	38.0	2.01	ALL OTHERS	3.2	31.6	5.54	1.0
TOTAL	1,887.8			TOTAL	570.7			

SUDANGRASS Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.		A C R E A G E		TCTAL		S T A T E S	
	1959-63	1964	AVERAGE	1964	ACREAGE	PERCENT	TREN D	NO.
	AVERAGE	1964						
OTHER HYBRIDS	68.3	1,370.2			28.89		1.3	35
PIPER	830.0	1,026.0			21.63		0.9	39
ALL OTHERS	215.1	470.3			9.92		1.2	11
SUDAX SX11	5.0	437.2			9.22		1.2	20
GREENLEAF	281.1	268.6			5.66		0.9	17
COMMON	534.6	253.7			5.35		0.8	25
SUDAX	19.1	239.3			5.05		1.2	17
SWEET	233.9	216.3			4.56		0.9	22
WHEELER	179.9	192.0			4.05		0.9	4
GRAZER	0.5	128.8			2.72		1.3	9
TIFT	64.1	53.5			1.13		1.0	9
SWEET 372	610.2	34.5			0.73		0.9	4
CALIFORNIA 23	37.5	30.0			0.63		0.9	1
LAHOMA	18.4	11.5			0.24		0.8	2
S-100	0.1	8.4			0.18		1.1	8
SUHI-1	1.1	2.5			0.05		1.2	5
TOTAL		4,742.8						

MILLET Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	CONN. 1000 ACRES 1000 ACRES	DEL. 1000 ACRES 1000 ACRES	ME. 1000 ACRES 1000 ACRES	MC. 1000 ACRES 1000 ACRES	MASS. 1000 ACRES 1000 ACRES	N.H. 1000 ACRES 1000 ACRES	N.J. 1000 ACRES 1000 ACRES	N.Y. 1000 ACRES 1000 ACRES	PA. 1000 ACRES 1000 ACRES	R.I. 1000 ACRES 1000 ACRES	VT. 1000 ACRES 1000 ACRES	M.VA. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
COMMON PEARL CATTAIL				0.5			0.1						0.6
GAB-I				0.1			0.1						0.2
GERMAN FOXTAIL		2.0											2.0
HUNGARIAN			1.0		0.2	0.7				0.1	10.0		12.0
JAPANESE BARNYAROGRASS			2.5		2.0	1.5			10.0	0.2	5.0		21.2
STARR				0.1									0.1
TOTAL		2.0	3.5	0.7	2.2	2.2	0.2		10.0	0.3	15.0		36.1

NORTH CENTRAL

VARIETY	ILL. 1000 ACRES 1000 ACRES	IND. 1000 ACRES 1000 ACRES	IOWA 1000 ACRES 1000 ACRES	KANS. 1000 ACRES 1000 ACRES	MICH. 1000 ACRES 1000 ACRES	MINN. 1000 ACRES 1000 ACRES	MO. 1000 ACRES 1000 ACRES	NEBR. 1000 ACRES 1000 ACRES	N.OAK. 1000 ACRES 1000 ACRES	OHIO 1000 ACRES 1000 ACRES	S.OAK. 1000 ACRES 1000 ACRES	WISC. 1000 ACRES 1000 ACRES	TOTAL 1000 ACRES 1000 ACRES
CANAQIAN CROWN													0.2
COMMON FOXTAIL			0.5					1.0			0.2		1.0
EARLY FORTUNE						0.5		4.5	20.0		2.5		28.0
EMPIRE						0.1							0.1
GERMAN FOXTAIL		2.8	1.0	10.0		0.1	5.0		5.0		0.1		18.9
HUNGARIAN						0.1							5.2
JAPANESE BARNYAROGRASS			2.0			0.1					7.0		2.1
MANTA													7.0
NEBRASKA COMMON						3.0		0.1	5.0				5.1
RED TURGHAI						0.1		0.1	40.0				43.1
SIBERIAN									25.0		4.0		29.1
STARR													
WHITE PROSO		1.0	0.5	1.0		1.0		4.5	80.0		5.0		1.0
WHITE WONDER						0.3		0.1					92.0
ALL OTHERS						0.1		0.1					0.4
TOTAL	3.8		4.0	11.0		5.4	5.0	10.4	175.0		18.8		233.4

MILLET

Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

VARIETY	ALA. 1000 ACRES	ARK. 1000 ACRES	FLA. 1000 ACRES	CA. 1000 ACRES	KY. 1000 ACRES	LA. 1000 ACRES	MISS. 1000 ACRES	N.C. 1000 ACRES	OKLA. 1000 ACRES	S.C. 1000 ACRES	TENN. 1000 ACRES	TEXAS 1000 ACRES	VA. 1000 ACRES	TOTAL 1000 ACRES
BROWN TOP	16.0	2.0	6.0	73.0		6.5				15.0	1.0	0.1		119.6
COMMON FOXTAIL											2.0	2.0	2.0	6.0
COMMON PEARL CATTAIL														
GAI I	25.0	8.0	5.0		1.0	26.5	15.0	3.0	2.0	25.0	2.0	14.0	8.0	107.5
GERMAN FOXTAIL		1.0	30.0	86.0	1.0	8.5	10.0	25.0	3.5	30.0	60.0	15.0	8.0	235.0
JAPANESE BARNYAROGRASS											0.5			0.5
PEARL NO 7	50.0	10.0	10.0	62.7	1.0	15.4	35.0	25.0	7.0	10.0	10.0	2.0	3.0	12.0
STARR			50.0			1.0		7.0						289.1
ALL OTHERS														8.0
TOTAL	91.0	51.0	101.0	221.7	3.0	57.9	60.0	60.0	16.0	80.0	75.5	48.1	21.0	886.2

WESTERN

VARIETY	ARIZ. 1000 ACRES	CALIF. 1000 ACRES	COLO. 1000 ACRES	IDAHO 1000 ACRES	MONT. 1000 ACRES	NEV. 1000 ACRES	N.MEX. 1000 ACRES	ORE. 1000 ACRES	UTAH 1000 ACRES	WASH. 1000 ACRES	WYO. 1000 ACRES	ALASKA 1000 ACRES	HAWAII 1000 ACRES	TOTAL 1000 ACRES
COMMON FOXTAIL														10.0
GERMAN FOXTAIL		1.0	10.0		0.6									11.6
HUNGARIAN					0.2									0.2
NEBRASKA COMMON											3.0			3.0
RED TURGEAI														26.0
SIBERIAN			20.0		0.6						10.0			30.6
WHITE PROSO		14.0	20.0								5.0			39.0
WHITE MONOER			20.0											20.0
TOTAL		15.0	100.0		1.4						18.0			136.4

NORTH CENTRAL

WESTERN134.4

TOTAL

MILLET Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.		S T A T E S			
	A C R E A G E		REPORTING RECOMMENDING			
	1959-63	1964	TOTAL ACREAGE PERCENT	TREND	NO.	NO.
	AVERAGE					
STARR	345.6	290.2	22.49	1.0	15	12
GAHI 1	134.1	235.2	18.23	1.2	15	12
GERMAN FOXTAIL	139.2	141.0	10.93	1.0	14	8
WHITE PROSO	122.2	131.0	10.15	1.0	10	5
BROWNTOP	146.1	119.6	9.27	0.9	8	3
COMMON PEARL (CATTAIL)	165.4	108.1	8.38	0.9	12	8
RED TURGHAI	42.9	63.1	4.89	1.0	4	4
SIBERIAN	75.1	59.7	4.63	1.0	6	4
EARLY FORTUNE	31.2	28.0	2.17	0.9	5	1
JAPANESE (BARNYARDGRASS)	25.4	23.8	1.84	1.0	10	7
WHITE WONDER	22.0	20.4	1.58	1.0	3	2
HUNGARIAN	10.1	17.4	1.35	1.0	10	8
COMMON FOXTAIL	15.5	17.0	1.32	1.0	6	1
PEARL NO 7	4.6	12.0	0.93	1.0	2	2
ALL OTHERS	1.0	8.2	0.64	1.0	4	2
NEBRASKA COMMON	5.0	8.1	0.63	1.0	3	1
MANTA	2.8	7.0	0.54	1.2	1	1
CANADIAN CROWN	0.2	0.2	0.02	1.4	1	-
EMPIRE	-	0.1	0.01	1.7	1	1
TOTAL		1,290.1				



PLANT ONLY TESTED SEED

This is your best assurance of:

- ★ VARIETAL PURITY
- ★ HIGH GERMINATION
- ★ FREEDOM FROM WEEDS
- ★ FREEDOM FROM OTHER
CROP SEED

GOOD SEED IS ALWAYS
YOUR BEST BARGAIN!